Sequence Sequence Sequence Sequence Sequence Sequence Sequence

Sequence Sequence Sequence Sequence

US-09-746-375-33 US-10-047-264A-3 US-10-044-972-114 US-10-293-832-25 US-10-293-832-25 US-10-293-832-25 US-10-245-114 US-10-245-114 US-10-245-103-114 US-10-245-143-114 US-10-245-143-114 US-10-245-183-114 US-10-245-813-114 US-10-245-813-114 US-10-245-813-114 US-10-245-813-114 US-10-245-813-114 US-10-245-813-114

Sequence 114, 18 Sequen

US-10-238-370-114 US-10-245-055-114 US-10-245-147-114 US-10-245-730-114 US-10-245-739-114 Sequence Sequence Sequence

US-10-090-365-2

ALIGNMENTS

```
Sequence 6, Appli
Sequence 114, Appli
Sequence 114, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 4, Appli
Sequence 28, Appl
Sequence 42, Appli
Sequence 6, Appli
Sequence 2, Appli
                                                                                                                                                                                      December 12, 2003, 12:14:52 ; Search time 48.1424 Seconds (without alignments) 1016.022 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                              US-10-047-264A-4
1432
1 MMPKHCFLGFLISFFLTGVA......XQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/PUSO8_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO9_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO0_PUBCOMB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
| Cgn2_6/ptodata/2/pubpaa/USO0_NEW_PUB.pep:*
GenCore version 5.1.6
(c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 US-10-047-264A-4
2 US-10-33-28
2 US-10-312-088-42
2 US-09-961-404-6
US-09-728-911-2
0 US-09-961-404-4
1 US-09-961-404-4
2 US-10-237-496-114
2 US-10-242-074-114
2 US-10-242-074-114
2 US-10-242-574-114
2 US-10-243-282-114
2 US-10-243-282-114
2 US-10-243-282-114
2 US-10-243-282-114
2 US-10-243-282-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      684280 segs, 185983659 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Published Applications AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match Length DB
                            Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1000.0
1000.0
1000.0
99.7
99.7
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
885.1
                                                                                                                                                                                                                                                                                                                                  Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1432
1432
1432
11218
11218
11218
11218
11218
11218
11218
11218
                                                                                                                                OM protein
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Database
                                                                                                                                                                                                 Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
No.
```

RESULT 1 US-1047-264A-4 Sequence 4, Application US/10047264A Sequence 4, Application No. US20030170839A1 Sequence 5, Applicant Pounser, Lou, Wed, Int. Compart 10 Sequence 5, Applicant 10 Sequen

BEST AVAILABLE COPY

```
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ·$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                    Fequence 28, Application US/10293832

Publication No. US20030180752A1,
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Liu, Wei
APPLICANT: Fouser, Lynette
APPLICANT: Spaulding, Vikki
ITILE OF INVENTION: TYPE 2 CYTOKINE RECEPTOR AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 22058-546
CURRENT APPLICATION NUMBER: US/10/293,832
CURRENT PILING DATE: 2002-11-12
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 33
SOFTWARE: PatentIn Version 3.2
SEQ ID NO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
PNLPYRYQKEKNVSIEDYYBLLYRVPIINNSLEKEQKVYEGAHRAVBIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TSETSDIQBPYYGRVRAASAGSYSEWSMTPRFTPPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                                                          PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 12; Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 1432; DB 1:
Best Local Similarity 100.0%; Pred. No. 4e-138;
Matches 263; Conservative 0; Mismatches 0
                                                                                                                                         241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                     241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 AEIYOPMLDRRSORSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 42, Application US/10312088; Publication No. US20030219862A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT CAGANISM: Homo sapiens US-10-293-832-28
                                                                                                                                                                                                            US-10-293-832-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-312-088-42
                                                            181
                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                       δ
                                                                                  셤
                                                                                                                   ઠે
                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
```

APPLICANT: Agarwal, Pankaj
APPLICANT: Cogswell, John P.
APPLICANT: Kabnic, Karen S.
APPLICANT: Lai, Ying-Ta
APPLICANT: Martensen, Shelby A.
APPLICANT: Mardock, Paul R.
APPLICANT: Smith, Randall F.

```
60/254,896) SEQT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 FVQYKIMFSCSWKSSHQKPSGCWQHISCNFPGCRTLAKYĞQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MMPKHCFLGFLISFFLIGVAGTQSTHESLKPQRVQFQ$RNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 PNLPYRYQKEKNVSIEDYYBLLYRVFIINNSLEKEQKVYEGAHRAVEIÉALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * SEUTO: 6 miss al. 67-98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 6, Application US/09961404

Publication No. U520030022827A1

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: SABULLAH, KHUSRU
APPLICANT: ASADULLAH, KHUSRU
TITLE OF INVENTION: PAMILY CLASS 2
FILE REFERENCE: SCH-1788
CURRENT APPLICANT: 001009-25

FILE REPERENCE: SCH-1788
CURRENT FILLING DATE: 2001-09-25

NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Pred. No. 4e-138; 0. Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 99.7%; Score 1428; DB 11; Best Local Similarity 99.6%; Pred. No. 1e-137; Matches 262; Conservative 1; Mismatches 0;
APPLICANT: Strum, Jay C.
APPLICANT: Xiang, Zhaoying
APPLICANT: Xiang, Zhaoying
APPLICANT: Xiat, Oing
APPLICANT: Rizh, Oing
FILE REPERBNCE: GP50029
CURRENT APPLICATION NUMBER: US/10/312,088
CURRENT FILING DATE: 2002-12-20
PRIOR PPLICATION NUMBER: CO/10/22
PRIOR PELING DATE: 2001-06-22
PRIOR PLING DATE: 2000-06-22
PRIOR APPLICATION NUMBER: 60/213,161
PRIOR PLING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 44
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 42
LENGTH: 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 1432; Best Local Similarity 100.0%; Pred. No. 4e Matches 263; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 AEIYOPMLDRRSORSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 263
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Homo sapiens
US-10-312-088-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-961-404-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-961-404-6
                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
```

a

ò

g

ઠે

ò

셤

ठ

```
61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQMQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 FVQYKI-----YGQRQWRNKEDCWGTQELSCDE
                                                                                                                                                                                          APPLICANT: Arai, Nacko
APPLICANT: Sana, Theodore R.
APPLICANT: Sana, Theodore R.
APPLICANT: Murphy, Exin B.
APPLICANT: Murphy, Exin B.
APPLICANT: Savkoor, Chetan
APPLICANT: Savkoor, Chetan
APPLICANT: Smith, Kathlen M.
APPLICANT: Smith, Rathlen M.
APPLICANT: McClanahan, Terrill K.
TITLE OF INVENTION: MadMaLIAN GENES; RELATED REAGENTS AND METHODS
FILE REFERENCE: DX01168K
CURRENT APPLICATION NUMBER: US/09/949,192
FILE REFERENCE: DX01169K
CURRENT FILING DATE: 2001-09-07
PRIOR APPLICATION NUMBER: 60/231,267
PRIOR APPLICATION NUMBER: 60/231,267
PRIOR APPLICATION NUMBER: 60/231,267
PRIOR PRILING DATE: 2000-09-08
SOFTWARE: Patentin version 3.1
SEQ ID NO 6
LENGTH: 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4, Application US/09961404
| Sequence 4, Application US/09961404
| Publication No. US20030022827A1
| GENERAL INFORMATION:
| APPLICANT: WEISA; BERTRAM
| APPLICANT: SABAT ROBERT
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: TOSCHI, LUISELLA
| TITLE OF INVENTION: FAMILY CLASS 2
| FILE REFERENCE: SCH-1788
| CURRENT APPLICATION NUMBER: US/09/961,404
| CURRENT APPLICATION NUMBER: US/09/961,404
| CURRENT FILLING DATE: 2001-09-25
| SEQ ID NOS: 19
| SOFTWARE: PATCHIN Ver: 2.1
| SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                85.1%; Score 1218; DB 10; Length 231; 87.8%; Pred. No. 2.6e-116; ive 0; Mismatches 0; Indels 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 AEIYOPMLDRRSORSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        209 AEIYQPMLDRRSQRSEERCVEIP 231
                                                    Sequence 6, Application US/09949192
Patent No. US20020142292A1
GENERAL INFORMATION:
                                                                                                                        APPLICANT: Parham, Christi L. APPLICANT: Gorman, Daniel L. APPLICANT: Kurata, Hirokazu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 87.8
Matches 231, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-949-192-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                       TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                           61 FVQXXIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAXYGQRQWRNKBDCWGTQBLSCDL 120
                                                                                                                                                                                                                    PNLPYRYQKEKAVSIEDYYELLYRVFIINNSLEKEQKYYEGAHRAVEIEALTPHSSYCVV 240
                                                                                           FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKWBDCWGTQELSCDL 120
                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MAPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88
                            1 MMPKHCFLGPLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQMQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                      PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKYYEGAHRAVEIEALTPHSSYCVV
MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 PNLPYRYOKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 FVQYKI------yegramakancharjelischi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    85.1%; Score 1218; DB 9; Length 231; 87.8%; Pred. No. 2.6e-116; ative 0; Mismatches 0; Indels 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application US/09728911
Fatent No. US20020012669A1
GENERAL INFORMATION:
APPLICANT: Presnall, Scott R.
APPLICANT: Xu, Wenfeng
APPLICANT: Xu, Wenfeng
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Human Cytokine Receptor
FILE REBERENCE: 99-93
CURRENT FILING DATE: 2000-12-01
FRIOR PAPLICATION NUMBER: US/09/728,911
CURRENT FILING DATE: 2000-12-03
FRIOR FILING DATE: 2000-09-13
FRIOR PILING DATE: 2000-09-13
FRIOR APPLICATION NUMBER: US 60/232,219
FRIOR APPLICATION NUMBER: US 60/244,610
FRIOR APPLICATION NUMBER: US 60/244,610
FRIOR FILING DATE: 2000-09-13
FRIOR FILING DATE: 2000-09-13
FRIOR FILING DATE: 2000-09-13
FRIOR FILING DATE: 2000-10-31
SEQ ID NO 2
SOFTHARE: FRASESE for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                              241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                      241 AEIYQPMLDRRSRRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AEIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 87.8°
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 5
US-09-728-911-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-728-911-2
                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                          181
                                                                                           61
                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   503
```

윱 ઠે

a ò

Š 요 Š . B ò

```
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME TITLE OF INVENTION: ACIDS ENCODING THE SAME CURRENT APPLICATION NUMBER: US/10/242,074

CURRENT APPLICATION NUMBER: US/10/19742

PRIOR PILING DATE: 2002-09-11

PRIOR PILING DATE: 2002-07-18

PRIOR PILING DATE: 1997-09-17

PRIOR FILING DATE: 1997-09-17

PRIOR PILING DATE: 1997-10-24

PRIOR PILING DATE: 1997-11-10

PRIOR APPLICATION NUMBER: 60/06507

PRIOR PILING DATE: 1997-11-10

PRIOR APPLICATION NUMBER: 60/06507

PRIOR APPLICATION NUMBER: 60/06507

PRIOR PILING DATE: 1997-11-10

PRIOR PILING DATE: 1997-11-10
                                                                                                                                                                                                                                                                                                                                                                                                                                             121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                            1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                               -----YGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                            FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                              1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                 Indels 32;
                                                                                                                                                Length 231;
                                                                                                                                              Score 1218; DB 12;
Pred. No. 2.6e-116;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AEIYOPMLDRRSORSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 114, Application US/10242074
Publication No. US20030138897A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Filvaroff, Ellen
Goddard, Audrey
Grimaldi, J. Christopher
Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/086478
PRIOR FILING DATE: 1998-05-22
PRIOR PPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LING DATE: 1998-06-24
PLICATION NUMBER: 60/090689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/089801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/090557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 AEIYOPMLDRRSORSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Smith, Victoria
Stephan, Jean-Phillippe
                                                                                                                                                                                                                                                                                                                                                                                          61 FVQYKİ -----
                                                                                                                                              Query Match
Best Local Similarity 87.8%;
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/
FILING DATE: 1998-06-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LING DATE: 1998-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Watanbe, Colin
; SEQ ID NO 114
; LENGTH: 231
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-237-496-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zhang, Zemin
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Baker, Kevin
APPLICANT: Eaton, Dan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                         FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                     TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                        89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRPTPRWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                       1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                                                                                                                                                                                                                                                                                                                        61 FVQYKI-----YGQRQWKNKEDCWGTQELSCDL 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Watanbe, Colin
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: Pong, Sherman
APPLICANT: Pong, Sherman
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: PS630R1C4
                                                                                                                                                                                           1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
                                                                                                                                              32;
                                                                                                                                                Indels
                                                                                             DB 11;
                                                                                                                                                ô
                                                                                           Query Match

85.1%; Score 1218; DB 11;
Best Local Similarity 87.8%; Pred. No. 2.6e-116;
Matches 231; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE KEFRENCE 1900 NUMBER: US/10/237,496
CURRENT FILING DATE: 2002-09-06
PRIOR PELING DATE: 2002-09-06
PRIOR PLING DATE: 2002-07-18
PRIOR FILING DATE: 2002-07-18
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-09-17
PRIOR PLING DATE: 1997-09-17
PRIOR PLING DATE: 1997-09-17
PRIOR PLING DATE: 1997-09-17
PRIOR PLING DATE: 1997-11-10
PRIOR PLING DATE: 1997-11-10
PRIOR PLING DATE: 1998-06-27
PRIOR PLING DATE: 1998-06-22
PRIOR PLING DATE: 1998-06-02
PRIOR PLING DATE: 1998-06-02
PRIOR PLING DATE: 1998-06-18
PRIOR PLING DATE: 1998-06-24
PRIOR PLING DATE: 1998-06-24
PRIOR PLING DATE: 1998-06-24
PRIOR PLING DATE: 1998-06-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          209 AEIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, Audrey
Goddard, Audrey
Grimaldi, J. Christopher
Gurney, Austin
Smith, Victoria
Stephan, Jean-Phillippe
Watanbe, Colin
Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 114, Application US/10237496
Publication No. US20030138896A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090689
PRIOR FILING DATE: 1998-06-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eaton, Dan
Filvaroff, Ellen
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-961-404-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-237-496-114
                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

240

120

88

```
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Eaton, Dan
                                                                                                                                TYPE: PRT
CORGANISM: Homo Sapien
US-10-242-505-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                  ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Zhang_Zemin
APPLICANT: Zhang_Zemin
APPLICANT: Zhang_Zemin
APPLICANT: Chang_Zemin
APPLICANT: Pong, Sherman
TITLE OF INVENTION: BCREEFED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3630R1C25
CURRENT APPLICATION NUMBER: 10/10/242,505
CURRENT PALLICATION NUMBER: 60/059114
PRIOR APPLICATION NUMBER: 60/059114
PRIOR PILING DATE: 1997-09-17
PRIOR PILING DATE: 1997-09-17
PRIOR PILING DATE: 1997-11-10
PRIOR PILING DATE: 1997-11-10
PRIOR PILING DATE: 1997-11-10
PRIOR PILING DATE: 1998-03-27
PRIOR PILING DATE: 1998-03-27
PRIOR PILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-18
                                                                                                                                                                                                                                                                                                                                                       61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                            TSETSDIQEPYYGRVRAASAGSYSEWSMIPRFTPWWEIKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                         . 88
                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                              61 FVQYKI------YGÖRÖWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                               1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 116 SEQ ID NO 114 LENGTH: 231
                                                                                                                                                                                                                        32;
                                                                                                                                                                            Length 231;
                                                                                                                                                                                                                      Indels
                                                                                                                                                                          Query Match 85.1%; Score 1218; DB 12; Best Local Similarity 87.8%; Pred. No. 2.6e-116; Matches 231; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AEIYOPMLDRRSORSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209 ABIYOPMLDRRSORSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Baton, Dan
Filvaroff, Bllen
Goddard, Audrey
Grimaldi, J.
Gurney, Austin
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 114, Application US/10242505
Publication No. US20030138898A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stephan, Jean-Phillippe
Watanbe, Colin
Wood, William
                                                                                                       ; ORGANISM: Homo Sapien
US-10-242-074-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-242-505-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                    쉽
                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
```

```
APPLICANT: Smith, Victoria
APPLICANT: Schhan, Jean-Phillippe
APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: APPLICANTON NUMBER: US/10/242, 574
CURRENT APPLICATION NUMBER: US/10/197942
PRIOR APPLICATION NUMBER: US/10/197942
PRIOR PILING DATE: 2002-09-11
PRIOR PILING DATE: 1997-09-17
PRIOR PILING DATE: 1997-09-17
PRIOR PILING DATE: 1997-10-24
PRIOR PLING DATE: 1997-10-24
PRIOR PLING DATE: 1998-01-10
PRIOR PLING DATE: 1998-01-10
PRIOR PLING DATE: 1998-05-22
PRIOR PLING DATE: 1998-06-02
PRIOR PLING DATE: 1998-06-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PNLPYRYQKEKKYVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88
                                                                                                                                                                                                                                                                                                                                              1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                            1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                61 FVQYKIMPSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32; Gaps
PRIOR APPLICATION NUMBER: 60/090689
PRIOR FILING DATE: 1998-06-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
ESEQ ID NO 114
LENGTH: 231
                                                                                                                                                                                                                                               Length 231;
                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                               85.1%; Score 1218; DB 12;
87.8%; Pred. No. 2.6e-116;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209 AEIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Filvaroff, Ellen
Goddard, Audrey
Grimaldi, J. Christopher
Gurney, Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 FVQYKİ-----
                                                                                                                                                                                                                                               Query Match
Best Local Similarity 87.8
Matches 231; Conservative
```

```
Zhang, Zemin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Baker, Kevin
                                                                                                                                                                                                   ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JS-10-243-282-114
                                                                                                                                                                                                                      US-10-243-261-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Zhang, Zemin
APPLICANT: Zhang, Zemin
APPLICANT: Shang, Zemin
APPLICANT: Pong, Sherman
TITLE OF INVENTION: ACIDS ENCODING THE SAME
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3630R1C56
CURRENT APPLICATION NUMBER: U5/19/243,261
CURRENT PILING DATE: 2002-09-13
PRIOR PILING DATE: 2002-09-14
PRIOR PILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/063046
PRIOR APPLICATION NUMBER: 60/063046
PRIOR PILING DATE: 1997-10-24
PRIOR PILING DATE: 1997-10-24
PRIOR PILING DATE: 1997-10-24
PRIOR PILING DATE: 1998-03-27
PRIOR PILING DATE: 1998-03-27
PRIOR PILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PNLPYRYQKEKOVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                             121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                      FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                           Indels 32; Gaps
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR PILING DATE: 1998-06-25
PRIOR FILING DATE: 1998-06-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
SEQ ID NO 114
LENGTH: 231
                                                                                                                                                                                                                     Score 1218; DB 12; Length 231;
Pred. No. 2.6e-116;
0; Mismatches 0; Indels 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AEIYOPMLDRRSORSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Filvaroff, Ellen
Goddard, Audrey
Grimaldi, J. Christopher
Gurney, Austin
Smith, Victoria
Stephan, Jean Phillippe
Watambe, Colin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 114, Application US/10243261
Publication No. US20030138900A1
GENERAL INFORMATION:
                                                                                                                                                                                                                     Query Match
Best Local Similarity 87.8%;
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         61 FVQYKI-----
                                                                                                                                            TYPE: PRT
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eaton, Dan
                                                                                                                                                                                  US-10-242-574-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         149
                                                                                                                                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
149 PNLPYRYQXEKAVVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 FVOYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 PVQYKI------YGQRQWKNKEDCWGTQELSCDL 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Fong, Sherman
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REPERENCE: P3630R1C50
PRIOR FILING DATE: 1998-06-18
PRIOR FILING DATE: 1998-06-18
PRIOR FILING DATE: 1998-06-24
PRIOR FILING DATE: 1998-06-25
PRIOR FILING DATE: 1998-06-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
LENGTH: 231
                                                                                                                                                                                                                                                                                                                                                                                 Length 231;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 87.8%; Pred. No. 2.6e-116;
Matches 231; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TURENT APPLICATION NUMBER: US/10/243,282
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: 10/197942
PRIOR PLILNG DATE: 2002-07-18
PRIOR PELICATION NUMBER: 60/059114
PRIOR PELICATION NUMBER: 60/059114
PRIOR PELICATION NUMBER: 60/05020
PRIOR APPLICATION NUMBER: 60/05027
PRIOR APPLICATION NUMBER: 60/05027
PRIOR PELING DATE: 1997-11-10
PRIOR PLILNG DATE: 1997-11-10
PRIOR PLILNG DATE: 1998-05-27
PRIOR PLILNG DATE: 1998-05-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209 AEIYOPMLDRRSORSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Filvaroff, Ellen
Goddard, Audrey
Grimaldi, J. Christopher
Gurney, Austin
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 114, Application US/10243282
Publication No. US20030138901A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stephan, Jean-Phillippe
Watanbe, Colin
Wood, William
```

60/086478

```
US-10-243-431-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JAPPLICANT: Baker, Kevin

APPLICANT: Eaton, Dan

APPLICANT: Eaton, Dan

APPLICANT: Eaton, Dan

APPLICANT: Goddard, Audrey

APPLICANT: Gramaldi, J. Christopher

APPLICANT: Gramaldi, J. Christopher

APPLICANT: Gramaldi, J. Christopher

APPLICANT: Smith, Victoria

APPLICANT: Stephan, Jean Phillippe

APPLICANT: Watanbe, Colin

APPLICANT: Anod, William

APPLICANT: Anod, William

APPLICANT: Chang, Zemin

APPLICANT: Chang, Zemin

APPLICANT: Anod, William

APPLICANT: Anod, William

APPLICANT: ANOSMINISTION: ACIDS ENCODING THE SAME

FILLE OF INVENTION: ACIDS ENCODING THE SAME

FILLE OF INVENTION: ACIDS ENCODING THE SAME

FILLE NEFERENCE: P3650R1C39

CURRENT FILLING DATE: 2002-09-12

CURRENT FILLING DATE: 2002-09-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PNLPYRYQKEKAVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 FVQYKI-----YGQRQWKQXKEDCWGTQELSCDL 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-06-18
PRIOR PILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090557
PRIOR PILING DATE: 1998-06-34
PRIOR PILING DATE: 1998-06-34
PRIOR PILING DATE: 1998-06-35
PRIOR PILING DATE: 1998-06-35
PRIOR PLING DATE: 1998-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                 32;
                                                                                                                                                                                                                                                                                                                                                                     Length 231;
                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                85.1%; Score 1218; DB 12;
87.8%; Pred. No. 2.6e-116;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 10/197942
PRIOR FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/059114
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/063046
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/065027
PRIOR PILING DATE: 1997-11-10
PRIOR PILING DATE: 1997-11-10
PRIOR PILING DATE: 1998-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 114, Application US/10243402; Publication No. US20030138902A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                              Query Match 85.1
Best Local Similarity 87.8
Matches 231; Conservative
                                                                                                                                                                                                                                                                                          ; ORGANISM: Homo Sapien
US-10-243-282-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-243-402-114
                                                                                                                                                                                                                          SEQ ID NO 114
LENGTH: 231
                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209
                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 TSETSDIQEPYYGRVRAASAGSYSEMSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          149 PNLPYRYOKEKAVSIEDYYELLYRVFIINNSLEKEOKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 FVQYXI-----YGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Stephan, Jean-Phillippe
APPLICANT: Watanbe, Colin
APPLICANT: Wood, William
APPLICANT: Tong, Zemin
APPLICANT: Zong, Sherman
APPLICANT: Pong, Sherman
APPLICANT: Pong, Sherman
APPLICANT: Pong, Sherman
TITLB OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REPERENCE: P3630R1C37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32; Gaps
                                                                                                                                                                                                                                                                        Remaining Prior Application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 116
SEQ ID NO 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 231;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          85.1%; Score 1218; DB 12;
87.8%; Pred. No. 2.6e-116;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/243,431
CURRENT FILING DATE: 2002-09-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 AEIYOPMLDRRSORSEERCVEIP 263
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR FILING DATE: 1998-06-18
PRIOR FILING DATE: 1998-06-24
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090689
PRIOR FILING DATE: 1998-06-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   209 AEIYOPMLDRRSORSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Baker, Kevin
APPLICANT: Baton, Dan
APPLICANT: Filvaroff, Bllen
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Phillippe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: 10/197942
PRIOR FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/059114
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/065027
PRIOR FILING DATE: 1997-11-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 114, Application US/10243431
Publication No. US20030138903A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 85.1
Best Local Similarity 87.8
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-402-114
```

148

ij

```
121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MMPKHCFLGFLISFPLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                            PRIOR FILING DATE: 1998-03-27

PRIOR FILING DATE: 1998-03-27

PRIOR PELING DATE: 1998-05-22

PRIOR FILING DATE: 1998-05-22

PRIOR FILING DATE: 1998-06-02

PRIOR PILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/090691

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-18

PRIOR PILING DATE: 1998-06-25

PREMAINING PRIOR APPLICATION NUMBER: 60/090689

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-25

PRIOR PILING DATE: 1998-06-25

PROMAINING PRIOR APPLICATION NUMBER: 60/090689

PRIOR PILING DATE: 1998-06-25

PROMAINING PAINING DATE: 1998-06-25

PROMAINING DATE: 1998-06-25

PRIOR PILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Indels 32; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          85.1%; Score 1218; DB 12; Length 231; 87.8%; Pred. No. 2.6e-116; tive 0; Mismatches 0; Indels 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 AEIYOPMLDRRSQRSEERCVEIP 263
APPLICATION NUMBER: 60/079689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 87.8'
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         සු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

Search completed: December 12, 2003, 12:24:05 Job time : 49.1424 secs

```
; Search time 54.383 Seconds
(without alignments)
1247.959 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-047-264A-4
1432
1 MMPKHCFLGFLISFFLIGVA.......YQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 830525
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              830525 segs, 258052604 residues
                                                                                                                                                                                                                                                                                                            December 12, 2003, 12:22:23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                               OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sp archea:*
sp_bacteria:*
sp_human:*
sp_human:*
sp_mammal:*
sp_mcrebrate:*
sp_mcrebrate:*
sp_nto:*
sp_nto:*
sp_roden:*
sp_roden:*
sp_roden:*
sp_roden:*
sp_roden:*
sp_roden:*
sp_roden:*
sp_virus:*
sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPTREMBL 23:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                                                                                                                                                                                            Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description	Q969j5 homo sapien	Q96a41 homo sapien	Q96qr0 homo sapien	homo	Q96sh8 homo sapien	Q8bw64 mus musculu	Q96sh7 homo sapien		O9hb22 homo sapien	Q99nd6 rattus norv	Q9ygc8 gallus gall	Q90w13 oncorhynchu	Q9yhw0 gallus gall	Oppris gallus gall	Osiveé homo sapien	Q8iz18 homo sapien
SUMMARIES		QI	096945	Q96A41	Q96QR0	Q9UHF4	696SH8	1 Q8BW64	Q96SH7	QBN6P7	Q9HB22	1 Q99ND6	3 Q9YGC8	3 Q90W13	3 Q9YHW0	3 Q9PVJ9	QBIV66	QSIZI8
	Query	Length DB	263 4	231 4	130 4	553, 4	553 4	546 1	209 4	574 4	574 4	569 1	341 1	294 1	569 1	442 1	244 4	491 4
d	Query	Match	100.0	85.1	46.7	21.6	21.6	19.3	18.3	16.8	16.8	13.4	12.6	12.1	10.9	10.6	10.5	10.5
		Score	1432	1218	699	310	310	276	262	240	240	192.5	180.5	173.5	155.5	152.5	151	151
	Result	No.	-	01	M	4	S	9	7	æ	თ	10	11	12	13	14	15	16

Q81US7 homo sapien Q8bur4 homo sapien Q8tz17 homo sapien Q8tz2 homo sapien Q8rg14 ma musculu Q8rg14 ma musculu Q8rg14 ma musculu Q8rg16 mus musculu Q8rg16 mus musculu Q8rg16 ovis aries Q82S2 mus musculu Q8J86 ovis aries Q83S3 mus musculu Q8J86 ovis aries Q8J86 ovis aries Q8J878 angien Q14936 homo sapien Q14936 homo sapien Q14936 homo sapien Q14936 mus musculu Q8LM8 musculu Q8LM8 musculu Q8LM8 musculu Q8LM9 serieptomyce Q8LM9 serieptomyce Q8LM9 serieptomyce Q8LM9 serieptomyce Q8LM9 serieptomyce Q8LM9 plasmodium Q8JMD5 semilki for Q8LMD7 homo sapien Q81MD2 homo sapien Q81MD2 homo sapien	Q9xym9 trichomonas
4 QBIUS7 4 QBBUU4 1 QBWIM7 1 QBWIM7 2 QBWIM7 1 QBWIM7 1 QBWIM7 1 QBWIM7 1 QBWIM7 1 QBWIM7 2 QBWIM7 6 QBWIM7 6 QBWIM7 4 QBWIM7 4 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 6 QBWIM7 1 QBWIM7 1 QBWIM7 6 QBWIM7 6 QBWIM7 1 QBWIM7 4 QBWI	S Q9XYM9
522 3325 3325 3131 2211 2211 2211 2211 2	2320
11111 00000000000000000000000000000000	6.1
149.5 141.49 147.49 147.49 147.49 15.55 11.10 10.55 11.10 10.55 11.10 10.55 10	88
1	45

ALIGNMENTS

3UL 59J	Q969J5; 01-DEC-2001 (TrEMBLrel.	01-DEC-2001 (TrEMBLrel.	: 01-MAR-2003 (TrEMBLrel. 23, Last annotation update) 3 Soluble cytokine class II receptor. Long isoform precursor		CRF2	Homo sapiens (Human).	. Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;] Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.	NCBI_TaxID=9606;	SECTIENCE PROM N.A.		MEDLINE=21518574; PubMed=11607789		Wolk K., Asadullah K., Sabat R.;		preferential expression in place	_			MEDILINGO-15-21 Full Control of State of Exterova E. Kotenko S.V. Izotova I.S. Mirochnitchenko O.V. Esterova E.	Dickensheets H., Donnelly R.P., Pestka S.,			J. Immunol. 166:7096-7103(20	EMBL; AJ313162; CAC85635.1;		•	Receptor; Signal.	SIGNAL 1 21 CHAIN 22 263	ISOFORM.
R Q H	점점	E I	DE	DE I	S	őö	38	ŏ	2 2	Z Z	2	Z	2	2	E.	3 2	2 1	RP 0	2 2	2	RŢ	R	몺	8 E	2 5	H	Ž	FF	4

(II

ä

Gaps

9 9 88

õ

셤 ò g

```
FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TSETSDIGEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                          SOLUBLE CYTOKINE CLASS II RECEPTOR, SHORT ISOFORM.
24A6912BFF75100F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----YGOROWKNKEDCWGTOELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       32; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 soluble
                           "Cloning and characterization of Interelukin-22 Binding Protein 22BP), a natural antagonist of In-TIF/IL-22."; submitted (EC-2000) to the EMBL/GenBank/DDBJ databases. EMBL, AJ313161, CAC85634.1; ... EMBL, AX040566; AAK85714.1; ... EMBL; AX044229; AAK87714.1; ... EMBL; AZ04262, CAC83097.1; ... EMBL; AZ07262; CAC83097.1; ... EMBL; AZ07262; CAC83097.1; ... EMBL; AZ07262; CAC83097.1; ... EMBL; AZ0726282; CAC82007.1; ... EMBL; AZ07262825; EMBL; AZ072628207.1; ... EMBL; AZ07262825; CAC82007.1; ... EMBL; AZ07262825; CAC82007.1; ... EMBL; AZ07262825; CAC82007.1; ... EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; EMBL; AZ07262825; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=11286453; PubMed=11390454;
Kotenko S.V., Izotova L.S., Mirochnitchenko O.V., Esterova E., Dickensheeter H., Donnelly R.P., Pestka S.;
Lidentification, cloning, and characterization of a novel solveceptor that binds IL-22 and neutralizes its activity.";
J. Immunol. 166:7096-7103(2001).
EMBL; AY040568; AAK85716.1;
InterPro; IPR000282; Cytok receptor 2.
SEQUENCE 130 AA, 15128 WW; A165814C641F5E5B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 231;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 669; DB 4; Length 130;
Pred. No. 2e-57;
0; Mismatches 0; Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Interleukin 22-binding protein CRF2-105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1218; DB 4;
Pred. No. 1.1e-110;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                130
   Renauld J.C.;
                                                                                                                                                                                                                                                                                                                                                                          POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AEIYOPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         231 AA; 26979 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FVQYKI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 85.1%;
Best Local Similarity 87.8%;
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 79.6%;
Matches 125; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                          21
231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                      Receptor; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-2001
01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ч
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0960R0
0960R0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IL22BP
                                                                                                                                                                                                                                                                                                                                                                                                                  CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
Q96QR0
       RETT AND DESCRIPTION OF FIT AND DESCRIPTION OF FIT AND DESCRIPTION OF FIT AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                  FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                             FVQYKIMPSCSMKSSHQKPSGCWQHISCNPPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                              1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2002 (TrEMBLrel. 20, Last annotation update)
Soluble cytokine class II receptor, short isoform precursor (Interleukin 22-binding protein) (RF2-10) (Class II cytokine receptor)
(Interleukin-22 binding protein) CRF2-10) (Class II cytokine receptor)
CRF2-SI OR IL22BP OR IL22RA2 OR IL-22BP.
                                                                                                                                               Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=2136522; PubMed=11481447;
Xu W., Preenell S.R., Parrish-Novak J., Kindsvogel W., Jaspers S.,
Chen Z., Dillon S.R., Gao Z., Gilbert T., Maden K., Schlutemeyer
Yao L., Whitmore T.E., Chandrasekher Y., Grant F.J., Maurer M.,
Jelinek L., Storey H., Brender T., Hammond A., Topouzis S.,
Clegg C.H., Foster D.C.;
"A soluble class II cytokine receptor, IL-22RA2, is a naturally
occurring IL-22 antagonist."
Proc. Natl. Acad. Sci. U.S.A. 98:9511-9516(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kotenko S.V., Izotova L.S., Mirochnitchenko O.V., Esterova E., Dickensheets H., Donnelly R.P., Pestka S.; Identification, cloning, and characterization of a novel soluble receptor that binds IL-22 and neutralizes its activity."; J. Immunol. 166:7096-7103 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                               ö
                                                                           Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
TISSUEsammary gland;
MEDLINE-21518574; PubMed=11607789;
MEDLINE-21518574; PubMed=11607789;
Gruenberg B.H., Schoenemeyer A., Weiss B., Toschi L., Kunz S. Wolk K., Asadullah K., Sabat R.;
M novel, soluble homologue of the human IL-10 receptor with preferential expression in placenta.";
Genes Immun. 2:329-334(2001).
                                                                                                                                               Indels
C96ECEC5D78AC79B CRC64;
                                                                   Query Match 100.0%; Score 1412; DB 4; Best Local Similarity 100.0%; Pred. No. 1.7e-131; Matches 263; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=21286453; PubMed=11390454;
30550 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human)
263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Breast /
                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q96A41
```

RESULT 2

음

ઠ ద

ò g ò 208

ë,

34; Gaps

ద ઠે 셤

```
76 -----YGQXKWLINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79 -----YĞÇKKMLNASKČGSINRTYCDLSVETSDYEHQFYAKVKAIWEARCSEWAET 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90 FPGCRTLAKYGOROWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           39 KPANITELSINMKNVLQWIPPEGLQGVKVTYTVQYFI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42 KPTNITFLSINMKNVLHWNPPESLHGVEVTYTVQYFI-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30 KPORVOFOSRNFHNILQWOPGRALTGNSSVYFVQXKIMFSCSMKSSHQKPSGCWQHISCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=22354683; PubMed=12466851;
The FANTOM Consortium,
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I will Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome Exploration Research Group Phase I & II Team;
The RIKEN Genome I Team The Riken Research Group Phase I 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
NCBI TaxID=10090,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             187 NTKSNRTWSQCVTNHTLV-LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        209 NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ch 19.3%; Score 276; DB 11; Length 546; Similarity 28.6%; Pred. No. 2.6e-18; 67; Conservative 35; Mismatches 94; Indels 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 553,
   Chordata, Craniata, Vertebrata, Eutele
Primates, Catarrhini, Hominidae, Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
21.6%; Score 310; DB 4; Length 55:
Best Local Similarity 32.0%; Pred. No. 1.3e-21;
Matches 74; Conservative 33; Mismatches 90; Indels
                                                                                                                          SEQUENCE FROM N.A. Griffiths C.; Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                           553 AA; 62485 MW; D5C2621FDC848328 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-WAR-2003 (TrEMBLrel. 23, Created)
01-WAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
                                                                                                                                                                                                                        EMBL; AL135902; CAC38375.1; -- InterPro; IRRO00282; Cytok receptor_2. InterPro; IRR001187; Tissue factor. Pfam; PF01108; Tissue_fac; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similar to BA204P2.1.3.
                                 Mammalia; Butheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus (Mouse)
      Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                             NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                             Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q8BW64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q8BW64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q8BW64
   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
FVQXKIMFSCSMKSSHQKFSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90 FPGCRTLAKYGOROWKNKEDCWGTQELSCDLISETSDIQEPYYGRVRAASAGSYSEWSWT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          76 ------YĞÇKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIMGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        127 GRFYPFLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 186
                              ---YGQRQWKNKEDCWGTQELSCDL 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              39 KPANITFLSINMKNVLOWIPPEGLOGVKVTYTVQYFI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Presnell S., Gilbert T., Whitmore T., Foster D., Hart C., Lehner J., Martinez T., Hoffman R., O'Hara P.; Submitted (SRP-1999) to the EMBL/GenBank/DDBJ databases. EMBL; AF104971; AAF01320.1; -- HSSP; P13726; 2HFT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            187 NTKSNRIWSQCVTNHTLV-LIWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 21.6%; Score 310; DB 4; Length 553; Best Local Similarity 32.0%; Pred. No. 1.3e-21; Matches 74; Conservative 33; Mismatches 90; Indels 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

Lok S., Kho C., Jelmberg A., Adams R., Whitmore T., Farrah T., O'Hara P., Hara P., Homo sapiens cytokine receptor homolog.";
Submitted (OCT-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
BA204P2.1.1 (Interleukin 20 receptor alpha, isoform 1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   553 AA; 62533 MW; 7C23C8543B114659 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                               01-MAY-2000 (TrEMBLrel. 13, Created)
1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-CCT-2002 (TrEMBLrel. 22, Last annotation update)
Class II cytokine receptor ZCYTOR7.
                                                                                                                                                           121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWE 157
                                                                                                                                                                                                                                                                                                                                                      553 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      553 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genew, HGNC:6003; IL20RA.
InterPro; IRR000222; Cytck_receptor_2.
InterPro; IPR001187; Tissue_factor.
Pfam; PF01108; Tissue_fac; I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                         61 FVQYKİ------
                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [2]
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                      O9UHF4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              096SHB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            696SH8
```

RESULT 4
O9UHF4
ID O9UHF4
ID O1-M
DT O1-M
DT O1-O
DE CTAS
GN ZCYT
OS HOME
OC MARM
OX NCBI
RRA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA RA LOK
RA

4

RESULT 5

셤 · &

ð

8 셤 ð g 096SH8 1D 09 AC 09 DT 01 DT 01 DE BA GN 1L

=

ö

9

셤 ઠે

```
98 AVSAGGRSATKOMIDRFSSLQHITILKPPDVTCISKVRSIQMIVHPTPTPIRAGDGHRLTLE 157
                                                                                                                                                77 OKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSFTSDIQEPYYGRVR 136
                                                                                                                                                                                                                            137 AASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIE 196
                                                                                                                                                                                                                                                    98 AVSAGGRSATKWIDRFSSLQHTILKPPDVICISKVRSIQMIVHPTPTPIRAGDGHRLILE 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   197 D-YYELLYRVFIINNSLEKEOKVYE----GAHRAVEIEALTPHSSYCVVAEIYOPMLDRR 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 77 QKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVR 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               137 AASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIE 196
                                                                                                                                                                      21 GTQSTHESLKP----QRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.

MEDLINE=20469498; PubMed=10875937;
Axie M.H., Aggarwal S., Ho W.H., Foster J., Zhang Z., Stinson J.,
Axie M.H., Aggarwal S., Ho W.H., Foster J., Zhang Z., Stinson J.,
Wood W.I., Goddard A.D., Gurney A.L.;
"Interleukin (IL)-22, a Novel Human Cytokine That Signals through the
Interferon Receptor-related Proteins CRF2-4 and IL-22R.";
J. Biol. Chem. 275:31335-31339(2000).

EMBL, AF286095, AAG22073.1; -.
                                                                                              21 GTQSTHESLKP----QRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 GSLAAHAPEDPSDLLQHVKFQSSNFENILTWDSGPEGTPD-TVYSIEYK------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         D-YYELLYRVFIINNSLEKEQKVYE----GAHRAVEIEALTPHSSYCVVAEIYOPMLDRR
    Length 574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Butel
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo
                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     574 AA; 62977 MW; C179C7085C6F3420 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Last sequence update)
Last annotation update)
16.8%; Score 240; DB 4; Le 28.6%; Pred. No. 8.9e-15; ive 31; Mismatches 93;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16.8%; Score 240; DB 4;
llarity 28.6%; Pred. No. 8.9e-15;
Conservative 31; Mismatches 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interPro; IPR000282; Cytok_receptor_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2003 (TrEMBLrel. 23,
                  l Similarity 28.6
69; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
nes 69; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor.
                                                                                                                                                                                                                                                                                                                                                                                  $ 252
                                                                                                                                                                                                                                                                                                                                                                                                                        212 $ 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $ 252
Query Match
Best Local S
Matches 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                      252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9HB22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IL22R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29HB22
                                                                                                                                                                                      名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
  130 ERFYPFLETQVSPPEVALTTGEKSISIALTAPEKWKRNPQDHTVSMQQIYPNLKYNVSVY 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSWT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN
                                      NNSLEKEQKVYEG--AHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                                            Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                            34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18.3%; Score 262; DB 4; Length 209; 31.1%; Pred. No. 1.8e-17; ive 29; Mismatches 72; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Eutel
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                      Griffiths C.; Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases. EMBL; AL135902; CAC38376.1; -. InterPro; IPR000282; Cytok_receptor_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Strausberg R.;
Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC039273; AAH29273.1;
Genew; HGNC:13700; IL22RA1.
                                                                                                                                                                                                                        01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
BA204P2.1.3 (Interleukin 20 receptor alpha, isoform 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     574 AA; 63076 MW; D46CC71D496F3420 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        209 AA; 23616 MW; 467AB77BE3840361 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Last sequence update)
Last annotation update)
                                                                                                                                                                      209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro, IPR000282; Cytok_receptor_2
                                                                                                                                                                                                          Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NNSLEKEQKV-YEGAH 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           187 NTKSNRTVSLKWNGAY 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-OCT-2002 (TEMBLEEL 22, 01-MAR-2003 (TEMBLEEL 23, Interlukin 22 receptor. Homo samion.
                                                                                                                                                                                                        (TrEMBLrel. 19,
(TrEMBLrel. 19,
(TrEMBLrel. 20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61; Conservative
                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Adrenal cortex;
                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                          01-DEC-2001
                                      209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                    Q96SH7;
Q96SH7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q8N6P7
Q8N6P7;
                                                                                                                                                                                                                                                                                      IL20RA
```

Matches

ઠે g ઠે 원 à 셤 ò 셤 RESULT 8 Q8N6P7

SOCO DE LA COLO DEL COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DEL COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO DE LA COLO

RESULT 7
0965847
10 0965847
10 0965847
10 01-D
10 10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
10 10-D
1

9

48;

```
D., Uze G., Lutfalla G.;
the interferon/interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      294
                                                          POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
teboul J., Gardiner K., Monneron Comparative genomic analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26 294 T
294 AA; 33404 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PR00346; TISSUEFACTOR
                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 24.2*
Matches 56; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity 26.8% nes 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tissue factor precursor.
                                              receptor gene cluster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=8022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q90W13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q90W13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 290W13
  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               119 DLTSETSDI--QEPYYGRVRAASAGSYSEWSMT-PRFTPWWETKIDPPVMNITQV---- 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59 VYFVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSC 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               171 NGSLLVILHAPNLPYRYQKEKNVSIEDYYE-----LLYRVFI------INNSLEKEQ 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  55 TY---YEV-------ALKKYGTSIWKDIHICSKAQTLSC 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MLPR--LLPFLVSISSLSLGFRAHGTELPSPSSVWPEARFFOHILRWMSIPNO----SES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQ--PGRALTGNSS
                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bukaryota; Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Archosauria, Aves; Neognathae, Galliformes; Phasianidae, Phasianinae,
                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.

TISSUE-Feripheral blood;

Mard H., Vigues S., Poole S., Bristow A.F.;

The rat interleukin-lo receptor: cloning and sequencing of cDNA coding for the alpha-chain protein sequence, and demonstration by Western blotting of expression in ratbrain.";

Cytokine 0:0-0(0).

EMBL; AJ305049; CAC24567.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13.4%; Score 192.5; DB 11; Length 569; 25.2%; Pred. No. 3.8e-10; vative 37; Mismatches 94; Indels 83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        217 KVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERCVEI 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          191 FTLEVPKRM------RKFCVKVMPHVESRINKAEWSEEQCLHV 227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 16 POTENTIAL.
17 569 INTERLEUKIN-10 RECEPTOR.
569 AA; 63526 MW; 2354FD61DB351BD2 CRC64;
                                                                                                                                                                     01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                           Interleukin-10 receptor, alpha chain precursor
                                                                                                                              569 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               341 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Created)
                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAY-1999 (TrEMBLrel. 10, 01-MAY-1999 (TrEMBLrel. 10, 01-MAR-2003 (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin-10 receptor 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 25.28
Matches 72; Conservative
                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                            Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Receptor; Signal.
                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1] -
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9031;
            $ 212
            212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIGNAL
                                                                                                                           90N660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gallus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99YGC8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IL10R2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q9YGC8
                                                                                                                              DOT THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF THE LEASE OF T
```

ઠે 셤 ઠે g ò 셤 8 g ò 셤

```
90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      72 L--------NVTECDVSS--LSVYGAYVLRVRTEWEDEHSDWAVV 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23 KPRNARISSVNFRSVLLWDPPGVRKGNLS-YTVQAKSIF------PKQNFNNVTTN 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9 GFLIS--FFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKI 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE-Leukocyte;
Sangrador-Vegas A., Smith T.J.;
Sangrador-Vegas A., Smith T.J.;
Sangrador-Vegas A., Smith T.J.;
Sangrador-Vegas A., Smith T.J.;
Molecular cloning of rainbow trout (Oncorhynchus mykiss) tissue factor precursor by use of suppression subtractive hybridisation.";
Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AJ29167; CAC82787.1;
Enterpro; IPR001082; Tissue_factor.
InterPro; IPR001187; Tissue_factor.
Pfam; PF01108; Tissue_fact.
                                                                                                                                                                                                                                               30 KPORVOFOSRNFHNILOWOPGRALIGNSSVYFVOYKIMFSCSMKSSHOKPSGCWOHISCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Actinopterygii, Neopterygii, Teleostei, Euteleostei,
Protacanthopterygii, Salmoniformes, Salmonidae, Oncorhynchus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      163 KKGSNKKVIHIDIKHNSEILSQLEPWTIYCIQVQGVIPEWNKTGERSQELC 213
                                                                                                                                                                      41;
                                                                                 12.6%; Score 180.5; DB 13; Length 341; Similarity 24.2%; Pred. No. 3e-09; 56; Conservative 37; Mismatches 97; Indels 41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12.1%; Score 173.5; DB 13; Length 294; 26.8%; Pred. No. 1.2e-08; tive '34; Mismatches 91; Indels 77;
341 AA; 39062 MW; 18027239BF8A9C87 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE FACTOR.
105DDDA107E54EDE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
```

```
Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q8IV66
Q8IV66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NON TER
                                                                                                                                                                                                                                                                                        Gallus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LICR2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 15
                      RESULT 14
                                                                       RATA PROCCOS GENERAL RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION OF THE RESERVATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12;
                                                                                                                                                                                                                                                                   224 PIHC-----IKTTRKVNDLLCPTNVRVFALNMKFYLLWDNHY----NEHVTYT 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62 VOYKIMPSCSMKSSHOKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       268 VQYLTGY---LKNLYDDYSSKWQKVS---GGENIT------SMKCNLS 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SVIKPTSASYYPRVQAMN--EYSKSCLSK-----DVEVDPPVTNEIGPPDVKVDISD-- 353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            172 GSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSL--EKEQKVYEGAHRAVEIE 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSD 126
                                                                                                                                                                                174 LLVILHAPN-LPYRYQKEKNVSIEDYY--ELLYRVFIIN--NSLEKEQKVYEGAHRAVEI 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMN------ITQVN 171
                                                                                                                                                     IQEPYYGRVRAASAGSYSE-------WSMTPRFTPWWETKIDPPVMNITQVNGS 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
GVLLSSVLFTIGAAGEDYFPEAMD---VQWVSNNFKTILTWGP-----EPTNY--TYTV
                                                                                                         ------HCIRSSRIECDLINELRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 PKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSV-YF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IFNARI.
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
Gallus.
NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .69; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Reboul J., Gardiner K., Monneron D., Uze G., Lutfalla G.; "Comparative genomic analysis of the Interferon/Interleukin-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 13; Length 569;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10.9%; Score 155.5; DB 13; Length 23.2%; Pred. No. 1.5e-06; ive 38; Mismatches 101; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6A757DDFB891E605 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                            201 TNLDKGQSYCVIVAAYIP--SRSAQKRLGDWSKAQC 234
                                                                                                                                                                                                                                                                                                                                 229 EALTPHSSYCVVAEIYQPMLDRRSQR----SEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    230 ALTPHSSYCVVAEIYQPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           408 DĽAPSTLÝCVKVQAFSEAYNKSSDFSRÉEČI 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptor gene_cluster.";
Genome Res. 9:242-250(1999).
EMBL, AF082664; AAD13669.1; -.
InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR003861; FN_III.
SMART; SM00060; FN3; 1.
                                                                                                         60 EFSRVGKDRORNP------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=99177346; PubMed=10077530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Interferon alpha/beta receptor 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    569 AA; 64055 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
TISSUE=Liver;
                                                                67
                                                                                                                                                     127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9YHW0
                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                ઠે
                                                                                                                                       ò
                                                                                                                                                                                   요
                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                 용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                        ઠે
```

```
62 VOYKIMFSCSMKSSHOKPSGCWOHISCNFPGCRTLAKYGOROWKWKEDCWGTOELSCDLT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             122 SETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMN-------ITOVN 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               172 GSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSL--EKEOKVYEGAHRAVEIE 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 PKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSV-YF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [1] _
SEQUENCE FROM N.A.
Dumoutier L., Renauld J.C.;
Cloning and characterization of LICR-2, a new type 2 cytokine
receptor gene.";
                                                                                                                                                                                                                                                                                                                                                                                 MEDINE=99177346; PubMed=10077530; Reboul J., Gardiner K., Monneron D., Uze G., Lutfalla G.; "Comparative genomic analysis of the Interferon/Interleukin-10 receptor gene cluster.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10.6%; Score 152.5; DB 13; Length 442; 22.9%; Pred. No. 2.2e-06; tive 39; Mismatches 101; Indels 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-WAR-2003 (TrEMBLrel. 23, Created)
01-WAR-2003 (TrEMBLrel. 23, Last sequence update)
01-WAR-2003 (TrEMBLrel. 23, Last annotation update)
Soluble isoform of Likely interleukin or cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Butel.
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        442 AA; 49877 MW; 839EBE92170609E0 CRC64;
                                                                          01-MAY-2000 (TrEMBLrel. 13, Last sequence update) 01-JUN-2002 (TrEMBLrel. 21, Last annotation update) Interferon alpha/beta receptor 1 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         230 ALTPHSSYCVVAEIYQPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           408 DLAPSTLYCVKVQAFSEAYNKSSDFSREECI 438
  442 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         244 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR003961; FN_III.
SMART; SM00060; FN3; 1.
                                                   01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last seq
01-JUN-2002 (TrEMBLrel. 21, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genome Res. 9:242-250(1999).
EMBL; AF082667; AAD13679.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                          Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
hes 62; Conserv
                                                                                                                                                                                                                                                                                                                                [1] -
SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9031;
```

```
Query Match 10.5%; Score 151; DB 4; Length 244;
Best Local Similarity 24.3%; Pred. No. 1.5e-06;
Matches 63; Conservative 32; Mismatches 76; Indels 88; Gaps 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             89 NFPGCRILAKYGORQWKNKEDCWGTQELSCDLTS-ETSDIQEPYYGRVRAASAGSYSEWS 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    148 MTPRFTPWWETKIDPPVMNITQVNGSLLVILHA-----PNLPYRYQKEKNVSIEDYYE 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : : | : | | : | | : | | | : | | | | | : | | | : | | : | | : | | : | | : | | : | | | : | | : | | | : | | | : | | | : | | | : | | | : | | | : | | | : | | | : | | : | | : | | : | | : | | : | | : | : | | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  65 ------RRRWREVEECAGTKELLCSWMCLKKQDLYNKFKGRVRTVSPSSKSPWV 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   201 LLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSS------YCVVAE-IYQP 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       :: | | | | : | | | | 160 VAF-------WKEGAGNKT-LFPVTPHGQPVQITLQPAASEHHCLSARTIYTF 204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31 PORVOPOSRNFHNILOWOPGRALIGNSS--VYFVOYKIMFSCSMKSSHOKPSGCWOHISC 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27 PONUTLESQNESVILTMING---LGNPQDVIXFVAYQ-----SSPT-----64
Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases. EMBL, AJ534331; CAD58830.1; -SEQUENCE 244 AA; 27536 MW; A6F3310C13FCC083 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  247 MLDRRSQRSEERC--VEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     205 SVPKYSKPSKPTCFLLEVP 223
              38 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ਨੇ
```

Search completed: December 12, 2003, 12:27:20 Job time : 56.383 secs

```
ABJ10499 standard; Protein; 263 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABJ10499;
                                                                                                                                                                                                    December 12, 2003, 12:15:52; Search time 66.8644 Seconds (without alignments) 624.325 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                 1 MMPKHCFLGFLISFFLTGVA......YQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1990.DAT:*/SIDS1/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1992.DAT:*/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1992.DAT:*/SIDS1/gcgdata/geneseqy/geneseqp-emb1/AA1993.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /SIDS1/gcgdata/geneseq/geneseqp-embl/AA1999.DAT:*/SIDS1/gcgdata/geneseq/geneseqp-embl/AA1999.DAT:*/SIDS1/gcgdata/geneseq/geneseqp-embl/AA2100.DAT:*/SIDS1/gcgdata/geneseq/geneseqp-embl/AA2100.DAT:*/SIDS1/gcgdata/geneseq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |SIDS1/gcgdata/geneseq/geneseqp-embl/AA1994.DAT:*
|SIDS1/gcgdata/geneseq/geneseqp-embl/AA1995.DAT:*
|SIDS1/gcgdata/geneseq/geneseqp-embl/AA1996.DAT:*
|SIDS1/gcgdata/geneseq/geneseqp-embl/AA1997.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA2002.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA2003.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1982.DAT:*
| SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA1983.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA1985.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA1985.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA1985.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA1987.AA1985.DAT:*
| SIDS1/gcgdata/geneseqgeneseqp-emb1/AA19898.DAT:*
| SIDS1/gcgdata/geneseqg/geneseqp-emb1/AA19898.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /SIDS17gcgdata/geneseq/geneseqp-embl/AA1980.DAT:
/SIDS1/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1107863
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1107863 segs, 158726573 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                     protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A Geneseq 19Jun03:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                  US-10-047-264A-4
                                                                                                                                                                                                                                                                                                                                                                                   Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                     OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database :
                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                                                            Run on:
```

	Description	ine receptor	cytokine rec	cytokine rec	PRO19598 pol	IL-TIF/IL-22	ZCYTO18 solu	DNAX cytokin	cytokine rec	Human Zcytor16 pro
	scri	ytok	luman							
	De			7	; ;			五	т,	.
) ! !								
SB		:								
UMMARIES		0499	7321	7382	9186	0324	5048	2460	2657	9600
SU	a		AAE1.	AA01	AAUO	AAU8	AAE05048	AAE0:	AAB6	AAE2
	0.0	23	23	23	22	23	22	22	22	23
	Length	263	263	263	262	263	231	231	231	231
de	Query re Match Length DB I	100.0	100.0	7.66	99.7	97.6	85.1	85.1	85.1	85.1
	Score	1432	1432	1428	1427	1397	1218	1218	1218	1218
	Result No.	-	7	m	4	S	φ	7	ω	6

122	1218 1218 1218 1218	85.1 85.1 85.1	231 231 231 231	33 33 53 33 53 33 33	ABJ10498 AAO17381 AAVU80000 ABG34086	Cytokine receptor Human cytokine rec Human IL-TIF/IL-22 Human Pro peptide
1111	1218	885.1 85.1 85.1	231	2223	AAE30826 AAE30826 AAE30838	Human cytokine rec Human cytokine rec Human cytokine rec
11 12 12 12 12 12 12 12 12 12 12 12 12 1	1217 1215 1215 1215	8 8 8 5 8 4 4 5 8 6 7 8 6 0	231	33333	ABJ10519 ABJ10511 ABJ10512	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1215 1213 1213 1213	84.0 84.7 84.7 84.6	44444	3 3 3 3 3 3	ABJ10516 ABJ10519 ABJ10517 ABJ10513	Cytokine receptor Cytokine receptor Cytokine receptor Cytokine receptor Cytokine receptor
	1210	84.5 77.1 17.1 1.1	2331 210 210	3 5 3 3 3 3 7	ABU10515 ABJ10510 AAB17319 AAB28607	ine receptine rytokine zcytori6 Zcytori6
	1050 1050 1050 802.5 792.5	73.3 73.3 55.0 55.3 6.7	222222 2442 2000 2000 0000	3333357	AAKS 3083.2 AAKS 2458 AAC 17380 ABJ 10501 AAKS 8616 ABJ 10500	Human Leycorie ext Human DNAX cytokin Human cytokine rec Cytokine receptor Mouse Zcytori6 pro Mouse Zcytori6 pro Cytokine receptor
8 6 6 4 4 4 4 4 4 4 6 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	661 310 310 310 310 310	21.6 21.6 21.6 21.6 21.6 21.6	130 207 207 214 217 217 221	53535355	AAB02461 AAB657289 AB657220 AAB65287 AAG67218 AAB65280 AAB65280	Human DNAX cytokin Human IL-20 recept Interleukin-20 sub Human IL-20 recept Interleukin-20 sub IL-20RA-IG gammal Interleukin-20 sub Human IL-20 recept
RESULT 1					ALIGNMENTS	

antiinflammatory; interleukin-antagonist-20; interleukin-antagonist-22; gene therspy; interferon-antagonist-abeta; interferon-antagonist-beta; interferon-antagonist-gamma; cytokine receptor family 2; CFF2-12; autoximmune disease; rheumatoid arthritis; multiple sclerosis; Immunosuppressive; antirheumatic; antiarthritic; neuroprotective; Cytokine receptor family 2 (CRF2) related protein SEQ ID No 4. 12-JAN-2001; 2001US-261442P. 06-FEB-2001; 2001US-267021P. 23-FEB-2001; 2001US-270835P. 14-JAN-2002; 2002WO-US00986 (first entry) (GEMY) GENETICS INST LLC. WO200266647-A2 inflammation. Inidentified. 21-NOV-2002 29-AUG-2002

Deng B;

Fouser L, Liu W,

Kabnic KS, Lai Y, Martensen SA; Strum JC, Xiang Z, Xie Q, Rizni SK;

Cogswell JP, Smith RF,

Agarwal P, Murdock PR,

2002-139783/18.

N-PSDB; AAD27816

(SMIK) SMITHKLINE BEECHAM CORP. (SMIK) SMITHKLINE BEECHAM PLC. (GLAX) GLAXO GROUP LTD.

22-JUN-2000; 2000US-213156P. 22-JUN-2000; 2000US-213161P. 22.-JUN-2001, 2001WO-US19929

WO200198342-A1.

27-DEC-2001

```
ö
                                                                                                                                                                                                             The invention relates to an isolated type 2 cytokine receptor family (CRF2-12) nucleic acid molecule encoding a polypeptide with amino acids 21-66 of a 231 residue amino acid sequence, given in the specification, or its complement. The compositions and methods of the present invention are useful for diagnosing, screening and treating disorders associated with abnormal CRF2-12 activity such as uncimmune diseases like rheumatoid arthritis, multiple sclerosis and inflammation. This sequence represents a cytokine receptor family 2 (CRF2-12) protein relating to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           depression, cardiovascular disease, myocardial infarction, renal failure, respiratory disease, liver disorder, Fanconi's syndrome; spleen disorder, type II diabetes mellitus; skeletal muscle disorder; immunosuppressive; hypersplenism; renal disease, hypostycalmia, gastrointestinal disease; nootropic; cirrhosis; Hodgkin's disease, neuroleptic; antiinflammatory; haemostatic; vulnerary; anticonvulsant; antirheumatic; neuroprotective; nephrotropic; hypotensive; vasotropic; cytostatic; cerebroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNPPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; therapy; wound healing disorder; vaccine; cancer; infection; autoimmune disorder; haematopoietic disorder; inflammation; arthritis; Parkinson's disease; Huntington's chorea; schizophrenia; antiarrhythmic; multiple sclerosis; Alzheimer's disease; analgesic; cardiant; asthma; ischaemia; stroke; AIDS; bone disease; atherosclerosis; brain disorder;
                                                                       New isolated CRF2-12 nucleic acid encoding a polypeptide, useful for diagnosing and treating disorders with abnormal CRF2-12 activity such as autoimmune diseases like rheumatoid arthritis, multiple sclerosis and inflammation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MPKHCFLGFLISFFLIGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKYYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ·
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 23; Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human cytokine receptor protein, abg456548CytoRa #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 1432; DB 23; 100.0%; Pred. No. 6.7e-135;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE17321 standard; Protein; 263
                                                                                                                                                                         Claim 2; Page 7; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 100.
1es 263; Conservative
                  2002-674946/72
                                                                                                                                                                                                                                                                                                                                                                                                                    263 AA;
                                     N-PSDB; ABT08217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAE17321;
                                                                                                                                                                                                                                                                                                                                                                                                                        Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB17321
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
```

```
The invention relates to secreted and membrane-associated polypeptides and polynucleotides. The sequences of the invention are useful in diagnostic assays for detecting diseases associated with inappropriate cativity or levels of these polynucleotides, and in identifying their agonists and antagonists that are potentially useful in therapy. The sequences of the invention are useful as vaccines for inducing immunological response. The sequences of the invention are useful for treating cancers, infections, autoimmune disorders, haematopoletic disorders, wound healing disorders, cholesteryl ester storage disease, infections, altoimmune disorders, multiple sclernolysis bullosa, Parkinson's disease, Hollesteryl ester storage disease, infections, Alzheimer's disease, athma, arthritis, bullosa, pacterial infections, Alzheimer's disease, asthma, arthritis, allery and pacterial infections, Alzheimer's disease, transplant rejection, graft verse host disease, ischaemia, stroke, acute respiratory disease septicaemia, psoriasis, inflammatory bowel disease, transplant rejection, depression, anxiety disease including parasupranuclear palsy, myotonic dystrophy, depression, anxiety disease including parasupranuclear palsy, myotonic dystrophy, depression, anxiety disease and myocardial infarction, disease including consential salure and myocardial infarction, and alloss and myocardial infarction, disease including consential and myocardial infarction, disease including consential and myocardial infarction, disease including consential and myocardial infarction, disease including consential and myocardial infarction, disease including consential and myocardial infarction, disease including consential and myocardial and m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      respiratory diseases including chronic obstructive pulmonary disease, acute bronchitis and adult respiratory distress syndrome, liver disorders including hypercholesterolaemia, hypertrisglyceridaemia, cirrhosis, viral and non-viral hepatitis, type II diabetes mellitus, renal disease including acute and chronic renal failure, glomerulonephritis, Fanconi's syndrome, cystinuria, skeletal muscle disorders including hyposlycaemia and tendinitis, gastroincestinal diseases including intestinal obstruction and tropical sprue, spleen disorders including hypersplenism, Hodgkin's disease and malignant lymphoma, testicular cancer, male reproductive diseases including low testosterone and male infertility.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 FVOYKIMPSCSMKSSHQXPSGCWQHISCNPPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 TSETSDIQEPYYGRVRAASAGSYSEWSWTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel secreted and membrane-associated polypeptides and polynucleotides useful for preventing, ameliorating or correcting dysfunction or disease including diabetes, cancer, hypertension and growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 1432; DB 23; Length 263; 100.0%; Pred. No. 6.7e-135; ive 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence is human cytokine receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 133-134; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    263; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          abnormalities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Loca
Matches
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
```

allergy; cytokine receptor.

Homo sapiens

180

240

120 180

셤

음 Š 셤 ઠે

```
Human; PRO19598; clone DNA145887; immune-related disorder; inflammatory disorder; autoimmune disorder; renal disease; demyelinating disease; skin disease; neoplasia; transplantation associated disease; immunosuppressive;
                                                                                                  Gurney AL;
FVQYKIMPSCSMKSSHQKPSGCWQHISCNPPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                      TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                      PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski PJ, Grimaldi CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21..262
/label= Mature_PRO19598_polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anti-inflammatory, antiasthmatic; antidiabetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'note= "N-myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "N-myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "N-myristoylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "N-glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "N-glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "N-glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "N-glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "N-glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1..20
/label= Signal_peptide
                                                                                                                                                                                                                                  263
                                                                                                                                                                                                                                                    AEIYQPMLDRRSRRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                      Ė
                                                                                                                                                                                                                                  AEIYOPMLDRRSORSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                    AAU09186 standard; Protein; 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000US-191015P.
2000US-191015P.
2000WG-US14941.
2000US-209932P.
2000WG-US23338.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2001; 2001WO-US06666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human PRO19598 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 165..168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         191..194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 208..211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     220..225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20..25
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fong S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200166740-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Addified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 33-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-AUG-2000:
                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Saton DL,
    19
                                        61
                                                                                                                  121
                                                                                                                                                        181
                                                                                                                                                                                            181
                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                          AAU09186;
                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Key
Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                AAU09186

IID AAU0

AAC

AAU

XXX

AAU0

I6-J

XXX

AUU

I6-J

IG-J

                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                      음
                                                                                                                                                                                                                                                                셤
                                  셤
                                                                              ò
                                                                                                          음
                                                                                                                                                      ò
                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
  TSETSDIQEPYYGRVRAASAGSYSEWSWTPRFTFWWETKIDPPVMYTTQVNGSLLVILHA 180
                                                            240
                                                                                PNLPYRYQKEKAVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                        Human, cytokine receptor; immune disease; psoriasis; cancer; infection, rheumatoid arthritis; multiple sclerosis; Crohn's disease; ulcerative colitis; transplant rejection; abortion; antipsoriatic; immunosuppressive; antirheumatic; antiarthritic; neuroprotective; antiinflammatory; antiulcer; cytostatic; dermatological; chromosome 6q24.1-25.2; receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention provides the protein and coding sequences of 3 variants of a human cytokine receptor. The sequences can be used in the diagnosis, prevention and treatment of immune diseases, including psoriasis, cancer, chronic/life-threatening infections, rheumatoid arthritis, multiple sclerosis, Crohn's disease, ulcerative colitis and transplant rejection and in reproductive medicine, e.g. for diagnosing abnormal immune reactions which cause abortions. The present sequence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQMQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                            PNLPYRYOKEKNVSIEDYYELLYRVFIINNSLEKEOKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid encoding soluble cytokine receptor, useful for diagnosis and treatment of e.g. immune disease, also related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 1428; DB 23;
Pred. No. 1.7e-134;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Toshi
                                                                                                                                                              AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                      AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                        Z
                                                                                                                                                                                                                                                                                                                                                                                          Human cytokine receptor variant 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Weiss B, Sabat R, Assadullah K,
                                                                                                                                                                                                                                                                        AAO17382 standard; Protein; 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 6; Page 15; 21pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-SEP-2000; 2000DE-1048626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-AUG-2001; 2001EP-0250307.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-NOV-2000; 2000DE-1058907.
19-DEC-2000; 2000DE-1064906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99.66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               variant 3 of the invention.
                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity ... hes 262; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002-332210/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (SCHD ) SCHERING AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB; AAL46001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP1191035-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                  08-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-MAR-2002
                                                                                                181
                                                                                                                                      241
                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                              AA017382;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                        121
                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                    Best
```

ਨੇ 용

```
The present invention relates to the isolation of 9 novel human PRO polypeptides and the CDNA sequences (AAS15360-AAS15368) encoding them. The novel PRO polypeptides include PRO1356, PRO1368, PRO13684, PRO3444, PRO3151, PRO94322, PRO9964, PRO1008 and PRO19598. The CDNA sequences encoding these PRO polypeptides have been designated as clones. DNA64803-1553, DNA84118-2520, DNA87997, DNA89273, DNA864866-1601, DNA64903-1553, DNA84118-2520, DNA87997, DNA89273, DNA95223-2567, DNA969973, DNA8101921 and DNA145887 respectively.

COMPOSITIONS (e.g. vaccines) containing PRO polypeptides and methods of inflammatory disorders. Such disorders include immune-mediated inflammatory disorders (e.g. osteoarthritis), non-immune-mediated inflammatory disorders (e.g. osteoarthritis), non-immune-mediated inflammatory disorders (e.g. diabetes mellitus), infectious disorders (e.g. diabetes mellitus), infectious disorders (e.g. diabetes mellitus), infectious disorders (e.g. diabetes mellitus), infectious disorders (e.g. diabetes mellitus), infectious disorders (e.g. diabetes diseases (e.g. cirrhosis), demyelinating diseases of the peripheral or central nervous system (e.g. Guillain-Barre syndrome), immune-mediated associated diseases. The polymucleotide sequences of the invention may be used in gene therapy. AAU09186 represent the novel human PRO polypeptides of the invention.
                                                                                                                                           Nucleic acids encoding PRO polypeptides, useful for detecting and treating immune related diseases and disorders in mammals including autoimmune diseases, inflammatory diseases and asthma -
                        Zhang Z;
                        Wood WI,
                                                                                                                                                                                                                                               Claim 10; Fig 18; 122pp; English.
                     Watanabe CK,
                                                                   WPI; 2001-625876/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       262 AA;
                                                                                                N-PSDB; AAS15368
                        Tumas D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
```

```
ö
                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                       181 NLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVA 240
                                                                                                                                                       62 VQYKIMPSCSMKSSHQKPSGCWQHISCNPPGCRTLAKYGQRQWKNKEDCWGTQELSCDLT 121
                                                                                                                                                                                                                                                                                                             NLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVA 241
                                                                                                                     9
                                                                               61
                                                                                                                                                                             61 VQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKBDCWGTQELSCDLT
                                                                                                                                                                                                                                   SETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAP
                                                                                                                                                                                                                                                         121 SETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAP
                                                                           2 MPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYF
                                                                                                     1 MPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQPQSRNFHNILQWQPGRALTGNSSVYF
                                           Gaps
                                         ..
0
99.7%; Score 1427; DB 22; Length 262; 100.0%; Pred. No. 2.18-134; ive 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                         EIYOPMLDRRSORSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                           EIYOPMIDRRSORSEERCVEIP 262
                   Best Local Similarity 100.
Matches 262; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                   122
                                                                                                                                                                                                                                                                                                             182
                                                                                                                                                                                                                                                                                                                                                                                         242
   Query Match
                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                 쉱
                                                                                                             g
                                                                                                                                                     ò
                                                                                                                                                                                           셤
                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                             ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                         ò
```

263 AA;

Sequence

the invention.

The present invention relates to a new polymucleotide that encodes a soluble protein which binds to interleukin (IL)-TIF/IL-22 (also referred to as IL-22BP), where the complementary sequence of the invention by the foreign to a nucleotide sequence of 2271 or 2366 base pairs, as given in the specification. The molecules of the invention are useful for inhibiting (antagonising) effect of IL-TIF/IL-22 on a cell, for determining whether IL-TIF/IL-22 is present in a sample, for inhibiting binding of IL-TIF/IL-22 to a binding partner, preferably in vitro, and for obtaining an antibody molecule specific for the soluble binding protein of the invention, from a population or panel of antibody molecules of diverse binding specificity. The soluble protein is further useful in manufacture of a medicament for treating an IL-22 mediated fasease and for assaying an asent, preferably an antibody or a peptide fragment of IL-TIF/IL-22 or the soluble protein, that modulates binding of the soluble protein to IL-TIF/IL-22, where the agent identified is used in the manufacture of medicament for treating IL-TIF/IL-22 mediated discorder. The antibody is useful for determining presence of the soluble protein, where the antibody is detectably labelled. The present amino condition is an antibody as detectably labelled. The present amino condition is acid sequence represents the human IL-TIF/IL-22 binding protein #2 of

ø

Polynucleotide and polypeptide of soluble protein which binds to interleukin-TIF/IL-22 useful for inhibiting effect of IL-TIF/IL-22 on

(LUDW-) LUDWIG INST CANCER RES

Renauld J, Dumoutier L; WPI; 2002-383190/41. N-PSDB; ABK50080.

22-SEP-2000; 2000US-234583P. 03-NOV-2000; 2000US-245495P. 31-JUL-2001; 2001US-0919162. 21-SEP-2001; 2001WO-US29576.

WO200224912-A2.

28-MAR-2002

Claim 14; Page 41-42; 42pp; English

```
121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                     PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                               61 FVQYKIMFSCSMKSSHQSQVDAWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                           PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                       1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                            1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                       FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                          TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                               Gaps
                                             ô
Score 1397; DB 23; Length 263;
Pred. No. 2.1e-131;
0; Mismatches 5; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                              241 AEIYQPMLDRRSQRSEERCVEIP
Query Match
Best Local Similarity 98.1%;
Matches 258; Conservative 0
                                                                                                                                                                       61
                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                       ઠે
                                                                                                                          셤
                                                                                                                                                                       ò
                                                                                                                                                                                                        名
                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                               용
                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
```

120

180

120

9 9 240

241

RESULT

Human; soluble protein; interleukin-TIF/IL-22; IL-TIF/IL-22; IL-22BP; IL-TIF/IL-22 antagonist.

Homo sapiens

Human IL-TIF/IL-22 binding protein #2.

(first entry)

15-JUL-2002

AAU80324

AAU80324 standard; Protein; 263 AA

RESULT 5

(first entry)

```
Human DNAX cytokine receptor subunit 4.2 (DCRS4.2).
          AAE02460 standard; Protein; 231 AA.
                                                               10-AUG-2001
                                     AAE02460;
            ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The patent discloses novel human cytokine, ZCYTO18 protein and its corresponding DNA. ZCYTO18 protein induces proliferation of cells expressing zcytoril, a receptor for ZCYTO18 or induces cytotoxicity in K5626 cells. ZCYTO18 DNA is useful for detecting a genetic abnormality in a patient. ZCYTO18 DNA and its antibodies are useful for detecting cancer and inflammation. ZCYTO18 protein is useful for killing cancer cells. It is useful for increasing platelets in a patient or injured tissue. It is also used in gene therapy. The present sequence is human zcytor16, which is a naturally expressed soluble receptor antagonist of ZCYTO18 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PNLPYRYQKEKAVSIEDYYELLYRVPIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                 Novel human cytokine polypeptide, ZCYTO18, useful for treating cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FVQYKI----YGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                    Human, cytostatic, cytokine, ZCYTO18 protein, genetic abnormality,
cancer, inflammation, gene therapy, zcytor16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 231;
                                                                                            Human ZCYTO18 soluble receptor antagonist, zcytor16 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1218; DB 22;
Pred. No. 1.5e-113;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 13A; Page 158-159; 167pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          209 AEIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AEIYOPMLDRRSQRSEERCVEIP 263
           AAE05048 standard, Protein, 231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 87.8%;
Matches 231; Conservative (
                                                                                                                                                                                                                                                                         23-DEC-1999; 99US-0471767.
                                                                                                                                                                                                                                               22-DEC-2000; 2000WO-US35308
                                                                                                                                                                                                                                                                                                                                                3
                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                   (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                Kindsvogel
                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-408648/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               231 AA;
                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAD09745
                                                                                                                                                                                          WO200146422-A1
                                                                                                                                                                                                                                                                                                                                                Presnell SR,
                                                                                                                                                                Homo sapiens
                                                                  10-SEP-2001
                                                                                                                                                                                                                     28-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               149
                                        AAE05048;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
AAE05048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
```

RESULT 7

δ

8

셤

ઠે

ઠે

```
The present sequence is human DNAX cytokine receptor subunit 4.2

(DCRS4.2). DCRS4 gene is located on chromosome 6q24 1-25.2.

(Cytokine receptors, fragments and antibodies are useful for treating immunological disorders. DCRS3 (50R), DCRS4 (cytor) or fragments are useful in drug screening to identify compounds having binding affinity to the receptor subunit. Modulators of DCRS are useful for modulating the physiology or development of a cell or tissue culture cells. A purified DCRS is useful as reagent to detect antibodies generated in response to the presence of elevated levels of expression, or immunological disorders which lead to production of antibody to the endogenous receptor. Cytokine receptor sequences are useful as probes for detecting levels of the cytokine receptor in patients suspected of having an immunological disorder. Antibodies have therapeutic value, are useful as potent antagonist, in detecting or quantifying ligands, for isolating DCRS proteins and peptides, to screen expression libraries for particular expression products, to raise anti-idiotypic antibodies and for detecting or diagnosing various immunological conditions related to expression of the protein or cells which express the protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MPRACELGFLISFELTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVX 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New mammalian receptor proteins related to cytokine receptors, useful for regulating cell development and for diagnosis and treatment of immunological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
Human; Immunomodulator; DNAX cytokine receptor subunit 4.2; DCRS4.2;
therapy; immunological disorder; drug screening; cell development;
chromosome 6q24.1-25.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 231;
                                                                                                                                                                                                                                                                                                  22..231
/label= DCRS4.2
/note= "Human mature DNAX cytokine receptor
subunit 4.2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1218; DB 22;
Pred. No. 1.5e-113;
0; Mismatches 0;
                                                                                                                                                                                                           1..21
/label= Signal-peptide
22..231
                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3; Page 23; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 85.1%;
Best Local Similarity 87.8%;
Matches 231; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0443060.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-NOV-2000; 2000WO-US31363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SCHE ) SCHERING CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-343800/36.
N-PSDB; AAD06414.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     231 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200136467-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-NOV-1999;
                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gorman DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                  Peptide
                                                                                                                                                                                                                                                                                                  Protein
                                                                                                                                                                                                           é
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

the

120

88

9 9

Gaps

32;

Length 231; Indels

148 180

```
Cytokine receptor; Zcytorl6; IL-TIF; autoimmune disease; dermatological; inflammatory disease; inflammatory bowel disease; rheumatoid arthritis; asthma; systemic lupus erythematosus; myasthenia gravis; pancreatitis; diabetes; atherosclerosis; glomerulonephritis; gene therapy; cytostatic; immunosuppressive; nephrotropic; allergy; placental health; abortion; cancer; human; chromosome 6.
can also be used to detect IL-TIF levels which is indicative of pathological conditions including inflammatory states (e.g. rheumatoid arthritis) and cancer. Antibodies that bind zcytoris polypeptides and topolypeptides themselves are useful for the treatment of inflammation, inflammatory diseases (e.g. infection, asthma, inflammatory bowel disease, rheumatoid arthritis and atherosclerosis) and autoimmune diseases. The antibodies and acytoris polymucleotides are also useful for detecting cancer. The present sequence represents the human
                                                                                                                                                                                                                                                                                                                                                                                              TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                           1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                              MPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                    -----YGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                   TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                              PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                         PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                       FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Mouse mature Zcytor16 protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "Fibronectin III domain II"
220..223
                                                                                                                                                                                  DB 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "Class II cytokine domain"
                                                                                                                                                                                                               0
                                                                                                                                                                               Query Match 85.1%; Score 1218; DB 22; Best Local Similarity 87.8%; Pred. No. 1.5e-113; Matches 231; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'note= "Cytokine binding domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Fibronectin III
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               l..22
/label= Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AEIYOPMLDRRSQRSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AEIYOPMLDRRSORSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAE28600 standard; Protein; 231
                                                                                                                                                                                                                                                                                                                                     FVQYKI -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Linker"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 132..230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      124..131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32..230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32..123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human Zcytor16 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23..231
                                                                                                                                                      231 AA;
                                                                                                                         zcytor16 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200270655-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-DEC-2002
                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                 89
                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                            149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAE28600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
      888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   용
                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                      ò
                  120
                                                                           180
                                                                                           TSETSDIQEPYYGRVRAASAGSYSEMSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                    PNLPYRYOKEKNVSIEDYYELLYRVFIINNSLEKEOKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                    208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a human cytokine receptor polypeptide, designated zcytor16. The zcytor16 polypeptide can be expressed by standard recombinant methodology and can bind to 1L-TIF (undefined). The zcytor16 protein is useful for: inhibiting 1L-TIF induced proliferation or differentiation of hematopoietic cell(s) (progenitors); reducing 1L-TIF induced or IL-9 induced inflammation, and suppressing an inflammatiory response in a mammal with inflammation. Heteromeric/multimeric receptor polypeptides such as soluble zcytor 16/GRF2-4 can be used to reduce progression and symptoms of cancer. Zcytor16 polypeptides
                                             88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          soluble cytokine receptor polypeptides and polynucleotides, useful diagnosing and treating cancer and inflammatory conditions -
                                                                                                                                                      PNLPYRYQKEKAVSIEDYYELLYRVPIINNSLEKEQKVYEGAHRAVBIBALTPHSSYCVV
                                               -----YGÓRÓWKNKEDCWGTÓELSCDL
                                                                           TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                            Cytokine receptor; zcytor16; IL-TIF; antiinflammatory; cytostatic; antirheumatic; antiarthritic; antiasthmatic; antiatherosclerotic; immunosuppressive; chromosome 6q24.1-25.2; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22..231
/note= "extracellular
112..210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 186-188; 210pp; English
                                                                                                                                                                                                263
                                                                                                                                                                                                                             231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Ig domain 1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "Ig domain 2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                       AAB62657 standard; Protein; 231 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kindsvogel W,
                                                                                                                                                                                                                                                                                                                                                                                                 Human cytokine receptor, zcytor16.
                                                                                                                                                                                               AEIYQPMLDRRSQRSEERCVEIP
                                                                                                                                                                                                                          AEIYQPMLDRRSQRSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-DEC-1999; 99US-0169049.
13-SEP-2000; 2000US-0232219.
31-OCT-2000; 2000US-0244610.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-2000; 2000WO-US32703.
                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22..108
/note= "
                                                 FVOYKI ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Χu w,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-356158/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAF83735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200140467-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Presnell SR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ното варіепв
                                                                                                                                                                                                                                                                                                                                                                  23-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-JUN-2001
                                                                                                                                                                 149
                                                                                                                                                                                               241
                                             61
                                                                                                        83
                                                                                                                                    181
                                                                                                                                                                                                                             209
                                                                          121
                                                                                                                                                                                                                                                                                                                                    AAB62657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zev.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eor
                                                                                                                                                                                                                                                                         RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ě
                                                                                                                                                               윱
                                     ద
                                                                        δ
                                                                                                셤
                                                                                                                                 ò
                                                                                                                                                                                               ò
```

```
21-NOV-2002 (first entry)
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                 The invention relates to cytokine receptor designated as mouse Zcytor16 which can bind and antagonise the IL-TIF. The Zcytor16 polypeptide is useful in medulating the immune system by binding Zcytor16 figand, and thus, preventing the binding of the ligand with endogenous Zcytor16 receptor. It is useful for studying human inflammation or immune function, or for treating autoimmune or inflammatory diseases such as function, or for treating autoimmune or inflammatory diseases such as inflammatory bowel disease, rheumatoid arthritis, asthma, systemic upus erythematosus, wyasthenia quaravis or allergy, atherosclerosis, cancer, diabetes, glomerulonephritis or pancreatitis, or in assessing therapeutic aspects of IL-TIF, chemical therapeutics, anti-IL-TIF antibodies or Zcytor16 soluble receptors. Zcytor16 DNA and the anti-mouse Zcytor16 antibody are useful as probes in detecting gene expression and gene structure, such as in the indeceding and/or prevention of spontaneous abortions or in monitoring placental health and function. It is also used in gene therapy. The present sequence is human Zcytor16 protein. Human Zcytor16 gene resides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYBGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88
                                                                                                                                                                                                     New Zcytor16 polypeptide useful for treating autoimmune or inflammatory diseases, e.g. inflammatory bowel disease, rheumatoid arthritis, asthma, atherosclerosis, cancer or diabetes, or in assessing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FVQYKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PNLPYRYQKEKNVS1EDYYELLYRVF11NNSLEKEQKVYEGAHRAVE1EALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    85.1%; Score 1218; DB 23; Length 231; 87.8%; Pred. No. 1.5e-113; tive 0; Mismatches 0; Indels 32
                                                                                                                                  Chen Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1, Page 191, 221pp; English
                                                                                                                                  Kindsvogel W,
                                                                                                                                                                                                                                                therapeutic aspects of IL-TIF
                                                                2001US-273035P
2001US-279232P
                                      04-MAR-2002; 2002WO-US06267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 85.1
Best Local Similarity 97.8
Matches 231, Conservative
                                                                                                       (ZYMO ) ZYMOGENETICS
                                                                                                                                  Presnell SR, Xu W,
                                                                                                                                                              WPI; 2002-698750/75
                                                                                                                                                                            N-PSDB; AAD45959
                                                                02-MAR-2001;
27-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

ABJ10498 standard; Protein; 231

ABJ10498

RESULT 10
ABJ10498
ID ABJ1
XX
AC ABJ1
XX

```
The invention relates to an isolated type 2 cytokine receptor family (CRED-12) nucleic acid molecule encoding a polypeptide with amino acids 21-66 of a 231 residue amino acid sequence, given in the specification, or its complement. The compositions and methods of the present invention are useful for diagnosing, screening and treating disorders associated with abnormal CRED-12 activity such as autoimmune diseases like rheumatoid archritis, multiple sclerosis and inflammation. This sequence represents a cytokine receptor family 2 (CRF2-12) protein relating to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88
                                                      Immunosuppressive, antirheumatic, antiarthritic, neuroprotective; antinflammatory; interleukin-antagonist-22; gene therapy; interferon-antagonist-alpha; interferon-antagonist-beta; interferon-antagonist-beta; interferon-antagonist-gamma; cytokine receptor family 2; CRF2-12; autoimmune disease; rheumatoid arthritis; multiple solerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPWWNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated CRF2-12 nucleic acid encoding a polypeptide, useful for diagnosing and treating disorders with abnormal CRF2-12 activity such as autoimmune diseases like rheumatoid arthritis, multiple sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 FVQYKI-----YGQKGWKKEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32; Gaps
Cytokine receptor family 2 (CRF2) related protein SEQ ID No 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 231,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1218; DB 23;
Pred. No. 1.5e-113;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209 AEIYQPMLDRRSQRSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 AEIYQPMLDRRSQRSEERCVEIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 6; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-JAN-2001; 2001US-261442P.
06-FEB-2001; 2001US-267021P.
23-FEB-2001; 2001US-270835P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 87.8%;
Matches 231; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-JAN-2002; 2002WO-US00986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fouser L, Liu W, Deng B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GEMY ) GENETICS INST LLC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-674946/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     231 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; ABT08216
                                                                                                                                                                                                                                                                                                                                        WO200266647-A2
                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
```

231

AEI YOPMLDRRSQRSEERCVEIP

241

Ź

AAU80000 standard; Protein; 231

Φ

```
g
   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention provides the protein and coding sequences of 3 variants of a human cytokine receptor. The sequences can be used in the diagnosis, prevention and treatment of immune diseases, including psoriasis, cancer, chronic/life-threatening infections, rheumatoid arthritis, multiple solerosis, Crohn's disease, ulcerative colitis and transplant rejection and in reproductive medicine, e.g. for diagnosing abnormal immune reactions which cause abortions. The present sequence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                     cancer; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                   New nucleic acid encoding soluble cytokine receptor, useful for diagnosis and treatment of e.g. immune disease, also related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                               rheumatoid arthritis, multiple sclerosis; Crohn's disease; locative collitis; transplant rejection; abortion; antipsoriatic; immunosuppressive; antirheumatic; antiarthritic; neuroprotective; antiinflammatory; antiulcer; cytostatic; dermacological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 23; Length 231;
                                                                                                     Human; cytokine receptor; immune disease; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 1218; DB 23,
Pred. No. 1.5e-113,
0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                Toshi
                    AA017381 standard; Protein; 231 AA
                                                                                 Human cytokine receptor variant 2.
                                                                                                                                                                                                                                                                                                                              Weiss B, Sabat R, Assadullah K,
                                                                                                                                                          chromosome 6q24.1-25.2; receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 6; Page 14; 21pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 85.1%;
Best Local Similarity, 97.8%;
Matches 231; Conservative
                                                                                                                                                                                                                                          24-AUG-2001; 2001EP-0250307.
                                                                                                                                                                                                                                                                25-SEP-2000; 2000DE-1048626.
                                                                                                                                                                                                                                                                           17-NOV-2000; 2000DB-1058907.
19-DEC-2000; 2000DB-1064906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         variant 2 of the invention.
                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-332210/37.
                                                                                                                                                                                                                                                                                                        (SCHD ) SCHERING AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               231 AA;
                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAL46000.
                                                                                                                                                                                                                                                                                                                                                                                                       and antibodies
                                                                                                                                                                                                  EP1191035-A2
                                                                                                                                                                             Homo sapiens
                                                            08-AUG-2002
                                                                                                                                                                                                                      27-MAR-2002
                                       AA017381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
RESULT 11
```

(LUDW-) LUDWIG INST CANCER RES. 03-NOV-2000; 2000US-245495P. 31-JUL-2001; 2001US-0919162.

Dumoutier

Renauld J,

WPI; 2002-383190/41.

N-PSDB; ABK50076

21-SEP-2001; 2001WO-US29576 22-SEP-2000; 2000US-234583P.

WO200224912-A2.

28-MAR-2002

Homo sapiens

```
The present invention relates to a new polynucleotide that encodes a soluble protein which binds to interleukin (IL)-TIF/IL-22 (also referred to as IL-22BP), where the complementary sequence of the invention by bridises under stringent conditions to a nucleotide sequence of 2271 or 2366 base pairs, as given in the specification. The molecules of the invention are useful for inhibiting (antagonaing) effect of IL-TIF/IL-22 on a cell, for determining whether IL-TIF/IL-22 is present in a sample, for inhibiting binding of IL-TIF/IL-22 to a binding partner, preferably in vitro, and for obtaining an antibody molecule specific for the soluble binding specificity. The soluble protein is further useful in manufacture of a medicament for treating an IL-22 mediated is useful in manufacture of a medicament for treating an IL-22 mediated fragment of IL-TIF/IL-22 or the soluble protein, that modulates binding of the soluble protein to IL-TIF/IL-22, where the agent identified is used in the manufacture of medicament for treating IL-TIF/IL-22 mediated disorder. The antibody is useful for determining presence of the soluble protein, where the antibody is deectably labelled. The present amino and secular antibody is detectably labelled. The present amino and secular antibody is detectably labelled. The protein #1 of actid sequence represents the human IL-TIF/IL-22 binding protein #1 of
Claim 14; Page 39; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         231 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
```

MMPKHCFLGFLISFFLIGVAGTQSTHESLKPQRVQPQSRNFHNILQWQPGRALTGNSSVY

32;

Length 231; Indels

Score 1218; DB 23; Pred. No. 1.5e-113; 0; Mismatches 0;

tch 85.1%; al Similarity 87.8%; 231; Conservative

Query Match Best Local S: Matches 231

FVQYKIMPSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120

TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMVITQVNGSLLVILHA 180 TSETSDIQEPYYGRVRAASAGSYSEWSWTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148

88

-----YGQRQWKNKBDCWGTQELSCDL

FVQYKI

61 121 83

g ሯ 셤

61

ઠે

g

ઠે

-

240

PNLPYRYQKEKAVSIEDYYELLYRVPIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208

149

쉽

181

ठ

PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKYYEGAHRAVEIEALTPHSSYCVV

Polynucleotide and polypeptide of soluble protein which binds to interleukin-TIF/IL-22 useful for inhibiting effect of IL-TIF/IL-22 on a

Human, soluble protein; interleukin-TIF/IL-22; IL-TIF/IL-22; IL-22BP; IL-TIF/IL-22 antagonist.

Human IL-TIF/IL-22 binding protein #1.

15-JUL-2002 (first entry)

AAU80000;

q

ઠે

ò

g

8

8

셤

ઠે

RESULT 13 ABG34086

```
PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune disorder; haematopoletic disorder; inflammation; arthritis; Parkinson's disease; Huntington's chorea; schizophrenia; antlarrhythmic; multiple scleroslis; Alzheimer's disease; analgesic; cardiant; asthma; ischemmia; stroke; AlDS; bone disease; atheroselerosis; brain disorder; depression; cardiovascular disease; atheroselerosis; brain disorder; respiratory disease; liver disorder; Fanconi's syndrome; spleen disorder; type II diabetes mellitus; skeletal muscle disorder; immunosuppressive; hypersplenism; renal disease; hypoglycaemia; gastrointestinal disease; nootropic; cirrhosis; Hodgkin's disease; neuroleptic; antiinflammatory;
                                                                                           This invention relates to the cDNA and protein sequences of novel secreted and transmembrane polypeptides PRO polypeptides. The invention also comprises a method for producing the proteins of the invention by recombinant means and antibodies specific for the protein of the invention. The antibody may be used for detecting the PRO proteins of the invention and may be used to modify their activity. To isolate the full-length PRO cDNA or to isolate other cDNA its construct hybridisation probes for mapping the gene which encodes that PRO and for genetic analysis of individuals with genetic disorders, in assays to identify other proteins or molecules involved in binding in assays.
                                                                                                                                                                                                                                                                                                                                  reaction, to generate transgenic animals or knock-out animals which in turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides are useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The sequences may also be used to detect overexpression on PRO polypeptides in cancerous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PILIPYRYQKEKUVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ------régrówknikedcwergelscol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVWNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNPHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               32; Gaps
  chromosome identification, tissue typing, or individuals with genetic disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tumours and for screening for differentially expressed genes using microarray technology. The present sequence represents a human PRO protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; therapy; wound healing disorder; vaccine; cancer; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 231;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human cytokine receptor protein, sbg456548CytoRa #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1218; DB 23;
Pred. No. 1.5e-113;
0; Mismatches 0;
                                                              Claim 11; Figure 114; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AEIYOPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 FVQYKI-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE17320 standard; Protein; 231 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 85.1%;
Best Local Similarity 87.8%;
Matches 231; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
  useful in gene therapy,
for genetic analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            231 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAE17320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
AAE17320
  ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                               TSETSDIGEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148
                                                                                                                                                                                                       PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240
                                                                                                                                                                                                                                  PNLPYRYQKGKNVSIEDYYELLYRVFIINNSLEKEQKYYEGAHRAVEIEALTPHSSYCVY 208
                                        PVOYKIMFSCSMKSSHOKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120
MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60
                                                                              TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New PRO polypeptides and polynucleotides encoding the polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Grimaldi JC;
Wood WI, Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; PRO; secreted protein; transmembrane protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Filvaroff E, Goddard A, Stephan J, Watanabe CK,
                                                                                                                                                                                                                                                                                            AEIYOPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                     ARIYOPMLDRRSQRSEERCVEIP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                ABG34086 standard; Protein; 231 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               genetic disorder; tumour; cancer
                                                                              FVOYKI -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-JAN-2001; 2001US-261878P.
16-JAN-2001; 2001US-261910P.
16-JAN-2001; 2001US-261939P.
16-JAN-2001; 2001US-26319P.
25-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001US-264395P.
2001US-264295P.
2001US-266421P.
2001US-267623P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-274399P.
2001US-280982P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-AUG-2001; 2001WO-US27099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001WO-US06520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001US-282129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001US-282199P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001WO-US17800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001WO-US21066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001WO-US21735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001WO-US17092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001WO-US19692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human Pro peptide #57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eaton DL,
Smith V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-362426/39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB; ABK70017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200224888-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JAN-2001; 2
02-FEB-2001; 2
09-FEB-2001; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-MAR-2001;
03-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAY-2001
                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABG34086;
                                                                                                                    121
                                                                                                                                                            83
                                                                                                                                                                                                         181
                                                                                                                                                                                                                                               149
                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                    209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney A
Fong S;
```

208

180 148

88

FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL

```
The invention relates to secreted and membrane-associated polypeptides and polynucleotides. The sequences of the invention are useful in diagnostic assays for detecting diseases associated with inappropriate activity or levels of these polynucleotides, and in identifying their agonists and antagonists that are potentially useful in therapy. The sequences of the invention are useful as vaccines for inducing their conformation are useful as vaccines for inducing their sequences of the invention are useful for treating cancers, infections, autoimmune disorders, haematopoietic conformation, congenital muscular dystrophy, junctional epidermolysis bullosa, Parkinson's disease, Huntington's chorestyl ester storage disease, inflammation, congenital infections, Alzheimer's disease, asthma, arthritis, allergies, schizophrenia, spay14324760a-associated disorders, rejection, capticaemia, psorlaais, inflammatory bowel disease, transplant rejection, sprid inforders, brain injury, AlDS, bone diseases, atthma, arthritis, spatin disorders including parasupranuclear palsy, myotonic dystrophy, depression, anxiety disorders and sleep disorders, cardiovascular diseases including oparasupranuclear palsy, myotonic dystrophy, ceptaenses including chronic obstructive pulmonary disease including chronic obstructisy remained chronic renal failure, sponders including hypercholesterolaemia, hypertriglyceridaemia, cirrhosis, viral and non-viral hepatitis, type II diabetes mellitus, renal disease including acute and chronic renal failure, glomerulone, cystinuria, skeletal muscle disorders including hypersplenism, capturing and tropical sprue, spleen disorders including hypersplenism, conformer, disease and malignant lymphoma, testicular cancer, male infertility. The present sequence is human ortoner in human ortoner is human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human ortoner in human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel secreted and membrane-associated polypeptides and polynucleotides useful for preventing, ameliorating or correcting dysfunction or disease including diabetes, cancer, hypertension and growth
haemostatic, vulnerary, anticonvulsant, antirheumatic, neuroprotective nephrotropic, hypotensive, vasotropic, cytostatic, cerebroprotective, allergy, cytokine receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Martensen SA;
Xie Q, Rizni SK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is human cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                     , Kabnic KS, Lai Y,
Strum JC, Xiang Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 132-133; 138pp; English.
                                                                                                                                                                                                                                                                                                                                          SMITHKLINE BEECHAM CORP.
SMITHKLINE BEECHAM PLC.
GLAXO GROUP LTD.
                                                                                                                                                                                                                                                                    22-JUN-2000; 2000US-213156P.
22-JUN-2000; 2000US-213161P.
                                                                                                                                                                                                                       22-JUN-2001; 2001WO-US19929
                                                                                                                                                                                                                                                                                                                                                                                                                                Cogswell JP,
Smith RF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-139783/18.
N-PSDB; AAD27815.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   231 AA;
                                                                                                                                 WO200198342-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                abnormalities
                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                  Agarwal P, Murdock PR,
                                                                                                                                                                                                                                                                                                                                     (SMIK ) (SMIK ) (SMIK ) (GLAX ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
```

```
180
                                                                                      240
                                                             148
                                                                                                         PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to cytokine receptor polypeptide, Zcytor16. The polypeptide is useful in modulating the immune system by binding Zcytor16 ligand and thus preventing the binding of the ligand with endogenous
       88
                                                                                                                                                                                                                                                                                                                                                        Human; cytokine receptor; Zcytor16; immune function; autoimmune disease; inflammatory bowel disease; ulcerative colitis; Crohn's disease; asthma; arthritis; psoriasis; endotoxaemia; septicaemia; toxic shock syndrome; infectious disease; cancer; diabetes; renal dysfunction; pancreatitis; sportaneous abortion; placental health; gene therapy; nephrotropic; chromosome 6q23-q24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           autoimmune or
                                                 TSETSDIQEPYYGRVRABASAGSYSEWSWTPRFTPWWETKIDPPVWNITQVNGSLLVILHA
                                                                                       PNLPYRYQKEKNVS1EDYYELLYRVF1INNSLEKEQKVYEGAHRAVE1EALTPHSSYCVV
        -----YGQRQWKNKEDCWGTQELSCDL
                                   121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New Zcytor16 polypeptide useful for treating or detecting autoimmu inflammatory diseases, e.g. inflammatory bowel disease, arthritis, asthma, diabetes, cancer, psoriasis, endotoxemia, septicemia, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hughes SD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Mature human Zcytor16 protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Fibronectin III domain II"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Fibronectin III domain I"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kindsvogel W, Chen Z,
                                                                                                                                                                                                                                                                                                                                 Human cytokine receptor, Zcytor16 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note= "Linker peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1..22
/label= Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 3; Page 233-234; 268pp; English.
                                                                                                                                                                   AEIYQPMLDRRSQRSEERCVEIP 231
                                                                                                                                             241 AEIYQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                              Ź
                                                                                                                                                                                                                                              AAE30826 standard; Protein; 231
       61 FVQYKI -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-MAR-2001; 2001US-27922P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-MAR-2002; 2002WO-US08811.
                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "F
128..131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32..123
/note= "F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   132..230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Presnell SR, Xu W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Infectious diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-029924/02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB; AAD48049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200277174-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                     24-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-OCT-2002
                                                           83
                                                                                       181
                                                                                                                 149
                                                                                                                                                                                                                                                                         AAE30826;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Region
                                                                                                                                                                                                                  RESULT 15
                                                                                                             a
                                                                                                                                                                   셤
                                                                                                                                                                                                                                                           셤
                                 ò
                                                    ద
                                                                                    ò
                                                                                                                                             ò
```

9

1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY MPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY

85.1%; Score 1218; DB 23; Length 231; 87.8%; Pred. No. 1.5e-113; ive 0; Mismatches 0; Indels 32

32;

0

Conservative

Local Similarity les 231; Conserv

Query Match Best Loca Matches

```
Zcytor16 receptor. It is useful for studying human inflammation or immune
                     function, or for treating autoimmune or inflammatory diseases such as inflammatory bowel disease, ulcerative colitis, Crohn's disease, arthritis, psoriasis, endotoxaemia, septicaemia, toxic shock syndrome or infectious disease, asthma, cancer, diabetes, renal dysfunctions or pancreatitis or in assessing therapeutic aspects of IL-TIF, chemical therapeutics, anti-IL-TIF antibodise, anti-Zcytoris antibodises or Zcytoris soluble receptors. The nucleic acid molecule and the antibody are useful as probes in detecting gene expression and gene structure, such as in the diagnosis and/or prevention of spontaneous abortions or in monitoring placental health and function. The invention is useful in gene is located on chromosome 6q23-q24.
```

231 AA; Sequence

181 PNLPYRYOKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVV 240 61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDL 120 121 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 180 89 TSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHA 148 149 PNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCUV 208 1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY 60 61 FVQYKI-----YGQRQWKNKEDCWGTQELSCDL 88 Gaps 32; Query Match
Best Local Similarity 87.8%; Pred. No. 1.5e-113;
Matches 231; Conservative 0; Mismatches 0; Indels 32 AEIYQPMLDRRSQRSEERCVEIP 263 241 q ઠે 셤 쥠 ઠે Š 요 ò 셤

Search completed: December 12, 2003, 12:25:33 Job time: 67.8644 secs

209 AEIYOPMLDRRSORSEERCVEIP 231

```
LENGTH: 221 amino acids
TYPE: amino acid
TYPE: anino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-943-087-52
                                                                                                                                                                                                                                              ; Search time 25.8542 Seconds (without alignments) 430.404 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-047-264A-4
1432
1 MMPKHCFLGFLISFFLTGVA......YQPMLDRRSQRSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lssued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 328717 segs, 42310858 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARIES
                                                                                                                                                                                                                                                       December 12, 2003, 12:07:47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                      OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .
BQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                                                       Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Result
No.
```

Gaps

```
90 FPGCRTLAKYGQRQWRNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                           150 PRFTPWWETKIDPPVMNITOVNGSLLVILHAPNLPYRYOKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                   47 -----YGQKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 97
                                        30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                        209 INSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                   34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 2; Length 221;
    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indele
                                                                 90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 21.6%; Score 310; DB 2; Best Local Similarity 31.6%; Pred. No. 2.2e-27; Matches 73; Conservative 34; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/943,087
    33; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Jelmberg, Anna C.
APPLICANT: Jedme, Robyn L.
APPLICANT: Multimore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: LUNN, Paul A
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 56, Application US/08943087
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         221 amino acids
    74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   · USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-943-087-56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
      Matches
                                                                       g
                                                                                                                                                    g
                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                             g
                                        ð
                                                                                                                  ð
                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                        à
                                                                                                                                                    90 FPGCRTLAKYGOROWKWKEDCWGTOELSCDLTSETSDIOEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                          98 GRFYPFLETQIGPPEVGLTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 157
                                                                                                                                                                                                                                  150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                           47 -----YGÇKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 97
                                                                           30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                               34; Gaps
                                                                                                                                                                                                                                                                                                             NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMIDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                      Length 221;
  Length 221;
                                        90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 310; DB 2;
Pred. No. 2.2e-27;
Query Match 21.7%; Score 311; DB 2; Best Local Similarity 32.0%; Pred. No. 1.7e-27; Matches 74; Conservative 33; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FSESEG for Windows Version 2.0
SOFTWARE: TSESEG for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Whitmore, Theodore E. APPLICANT: Farrah, Theresa M. TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60 CORRESPONDENCE ADDRESSE: ZymoGenetical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 50, Application US/08943087
Patent No. 5945511
GENERAL INFORMATION:
APPLICANT: Lok, Si
APPLICANT: Kho, Choon J.
APPLICANT: Adms, Robyn L.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Parrah, Theresa M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 221 amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21.6%;
32.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Sea
STATE: WA
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-943-087-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-943-087-50
                                                                                                                                                                                                                                                                                                               209
                                                                                                                                                                                                                                                                                                                                                      158
                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 2
                                                                                                                                                                                                                                                                      셤
                                                                                                              쉽
                                                                                                                                                    ò
                                                                                                                                                                                           셤
                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                               ò
```

셤

ઠે 셤

g ò 셤 ò

```
90 PPGCRTLAKYGOROWKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                 ------YGQKKWLNKSECRNINRTYCDLSAETSDYBHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30 KPORVOFOSRNFHNILOWOPGRALTGNSSVYFVOYKIMPSCSMKSSHOKPSGCWQHISCN 89
                                                                                                                           150 PRFTPWWETKIDPPWMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII
                                                                                                                                                                                                                                     187 NIKSNRIWSQCVINHILV-LIMLEPNILXCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                            209 NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVARIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 21.6%; Score 310; DB 2; Length 553; Best Local Similarity 32.0%; Pred. No. 9.3e-27; Matches 74; Conservative 33; Mismatches 90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         39 KPANITFLSINMKNVLQWTPPBGLQGVKVTYTVQXFI------
39 KPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQYFI--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: DOS
SOFTWARE: FatlsER FATUR
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 1201 Eastlake Avenue East CITY: Seattle STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
CLASSIPICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-PRB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
                                                                                                                                                                                                                                                                                                                                                         Sequence 14, Application US/08943087
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                         Lok, Si
Kho, Choon J.
Jelmberg, Anna C.
Adams, Robyn L.
Whitmore, Theodore B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE DOCKET NUMBER: 32,743
REFERENCE DOCKET NUMBER: 96.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Farrah, Theresa M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 14: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: li
MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-943-087-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                      RESULT
                                                                                 셤
                                                                                                                                                              g
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                       ઠ
                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                   90 PPGCRTLAKYGOROWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSWT 149
                                                                                                                                                                                           150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                           -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGSKCSKWAES 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30 KPORVQPOSRNFHNILQWQPGRALTGNSSVYFVQYKIMPSCSMKSSHQKPSGCWQHISCN 89
    KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                      209 NNSLEKEQKVYEGAHRAVEIBALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                 ; DB 2; Length 553; 9.3e-27;
                                         10 KPANITFLSINMKNVLÓWTPPEGLQGVKVTÝTVÓÝFÍ-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SUSTYBARE: PSESSED for Windows Version 2.0
SUFRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21.6%; Score 310; DB 32.0%; Pred. No. 9.3e-tive 33; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Lok, Si
APPLICANT: Lok, Si
APPLICANT: Kho, Choon J.
APPLICANT: Adams, Robyn L.
APPLICANT: Adams, Robyn L.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 96-24C1
FELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2, Application US/08943087
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEB: ZymoGenetics, Inc. STREET: 1201 Eastlake Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 553 amino acida
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 32:09
Matches 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 98102
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                    US-08-943-087-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-943-087-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                                           47
                                                                                                                                                                                                                                                                                              158
```

ò

```
-----YGQKKWLNKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                          150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-BLLYRVFII 208
                                                                                                                                                  90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLISETSDIQEPYYGRVRAASAGSYSEWSWT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30 KPORVOFOSRNFHNILOWOPGRALIGNSSVYFVQYKIMFSCSMKSSHOKPSGCWQHISCN 89
                                                                                                                                                                                                                                                     209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVABIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                         187 NTKSNRTWSQCVTNHTLV-LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39 KPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQYFI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: LDF. COMPUTER: DOPERATING SYSTEM: DOS SOFTWARE: FASESEQ for Windows Version 2.0 SOFTWARE: FASESEQ for Windows Version 2.0 CURRENT APPLICATION DATA: US/08/943,087 FILING DATE: US/08/943,087 FILING DATE: DOS SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOFTWARE SOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
21.6%; Score 310; DB 2;
Best Local Similarity 32.0%; Pred. No. 9.3e-27;
Matches 74; Conservative 33; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Jelmberg, Anna C.
APPLICANT: Adams, Robyn L.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: ZymoGenetics, Inc.
1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18, Application US/08943087
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lok, Si
Kho, Choon J.
Jelmberg, Anna C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX:
INFORMATION FOR SEQ ID NO: 18:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          553 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS
LENGTH: 553 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 98102
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: 811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 1201 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-943-087-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                   d
                                                                                                                                                                                                                                                                                                                               엄
                                                                                      ò
                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                   -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                           150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                          127 GRFYPFLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90 FPGCRTLAKYGORQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30 KPORVOFOSRNFHNILOWOPGRALIGNSSVYFVOYKIMFSCSMKSSHOKPSGCWQHISCN
                                                                                                                                                                                                                                                                                                                                                                              34;
                                                                                                                                                                                                                                                                                                                      NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           th 21.6%; Score 310; DB 2; Length 553; Similarity 32.0%; Pred. No. 9.3e-27; 74; Conservative 33; Mismatches 90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FSBESEG for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lok, Si
APPLICANT: Lok, Si
APPLICANT: Kho, Choon J.
APPLICANT: Adams, Robyn L.
APPLICANT: Adams, Robyn L.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTOMNEY/AGENT INFORMATION:
NAME: LUMN, PAUL G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
TELEFORMUNICATION INFORMATION:
TELEFORMUNICATION:
TELEFORMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: ZymoGenetics, Inc.
STREET: 1201 Rastlake Avenue East
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16, Application US/08943087
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 74; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 6
US-08-943-087-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-943-087-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                          209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                         셤
                                                                                                                                                               à
                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

```
127 GRFYPFLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90 FPGCRTLAKYGGRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSWT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                76 -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127 GRFYPFLETOIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMOOIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          150 PRFTPWWETKIDPPVMNITOVNGSLLVILHAPNLPYRYOKEKNVSIEDYY-BLLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN
                                                                     209 NNSLEKECKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39 KPANITFLSINMKNVLÓWTPPEGLQGVKVTÝTVÓÝFÍ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21.6%; Score 310; DB 2; L. 32.0%; Pred. No. 9.3e-27; tive 33; Mismatches 90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: DOS
SUSTUARE: FRSESEGO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                             APPLICANT: LOK, Si
APPLICANT: Kho, Choon J.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Adams, Robyn L.
APPLICANT: Mitmore, Theodore E.
APPLICANT: Parrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 1201 Eastlake Avenue East
CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION WUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: LUMN, PAUL G
NAME: LUMN, PAUL G
NAME: LUMN, PAUL G
NAME: 1000 NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96-24C1
                                                                                                                                                                                   Sequence 22, Application US/08943087
Patent No. 5945511
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         553 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 32.0%
Matches 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein
PRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE:
                                                                                                                                                                JS-08-943-087-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                            RESULT 9
                                           ò
                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                            127 GRFYPFLETQIGPPEVALITDEKSISVVLTAPEKWRRNPEDLPVSMQQIYSNLKYNVSVL 186
150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           76 -----YGQKKWIANKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             187 NTKSNRTWSQCVTNHTLV-LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                              209 NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21.6%; Score 310; DB 2; Length 553; 32.0%; Pred. No. 9.3e-27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ::
-
::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FASTESOG for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         =
=
=
=
                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Whitmore, Theodore B.
APPLICANT: Farrah, Thorsea M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-24C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
                                                                                                                                                                                                                      Sequence 20, Application US/08943087
Patent No. 2945511
GENERAL INFORMATION:
APPLICANT: LOK, Si
                                                                                                                                                                                                                                                                                     Lok, Si
Kho, Choon J.
Jelmberg, Anna C.
Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 553 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 32.v.
The 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       single
                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS: ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino a STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                     US-08-943-087-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-943-087-20
                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                       요
                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
```

ĕ

```
187 NTKSNRTWSQCVTNHTLV-LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                       Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: 1in
MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                          USA
                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                      98102
                                                                                                                                                                                                                                                                                      ADDRESSEE:
STREET: 12
                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
                                                    RESULT 11
US-08-943-087-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-943-087-26
                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                     Sequence 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLISETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               76 -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30 KPORVOPOSRNFHNILOWOPGRALIGNSSVYFVOYKIMFSCSMKSSHOKPSGCWOHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ----- 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
       209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                        187 NIKSNRIWSQCVINHILV-LIWLEPNILYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39 KPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQYFI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21.6%; Score 310; DB 2;
32.0%; Pred. No. 9.3e-27;
tive 33; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS CSPTWARE: PRESCESO GOT Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                      TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60 CORRESPONDENCE ADDRESS: ADDRESSES: ZymoGenetics, Inc.
                                                                                                                                                                                                                                                                                                                                            1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIPICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96-24C1
                                                                                                                   Sequence 24, Application US/08943087
Patent No. 5945511
GENERAL INFORMATION:
                                                                                                                                                                                                                                          Theodore E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 96.
TELECOMMUNICATION INFORMATION: 15LEPHONE: 206-442-6627
                                                                                                                                                                                                       Jelmberg, Anna C.
                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                          Farrah, Theresa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : 553 amino acids
amino acid
                                                                                                                                                                                                                          Adams, Robyn L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                    Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single
                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 98102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                          Whitmore,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                              Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Simi
Matches 74;
                                                                                                     US-08-943-087-24
                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-943-087-24
                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                   셤
          ઠ
```

```
90 FPGCRTLAKYGORQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30 KPORVOFOSRNFHNILGWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|| | ...|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    39 KPANITFLSINMKUVLQWTPPEGLQGVKVTYTVQYFI------3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21.6%; Score 310; DB 2; 32.0%; Pred. No. 9.3e-27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33; Mismatches
                                                                                                                                                                                                                        APPLICANT: Kho, Choon J.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Mitmore, Theodore E.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1: ZymoGenetics, Inc.
1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 536
PRIOR APPLICATION DATA:
PPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
5, Application US/08943087
5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-
TELECOMMUNICATION:
TELECOMMUNICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3: Diskette
IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     553 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                     Lok, Si
Kho, Choon J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS
LENGTH: 553 amino acio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
SOFTWARE: FastSEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
```

```
Application US/08943087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-943-087-30
                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90 PPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSFTSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  76 -----YGQKKWIANKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         39 KPANITFLSINMKNVLQWTPPEGLQGVKVTYTVQYFI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               209 NNSLEKECKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21.6%; Score 310; DB 2; Length 553; 32.0%; Pred. No. 9.3e-27; tive 33; Mismatches 90; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
                               Sequence 28, Application US/08943087; Patent No. 5945511
GENERAL INFORMATION:
APPLICANT: Lok, Si
APPLICANT: Kho, Choon J.
APPLICANT: Adams, Robyn L.
APPLICANT: Mitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRAATION NUMBER: 32,743
REFERENCE/DOCKET UNDRER: 96-24C1
TELECOMMUNICATION INPORMATION:
TELECOMMUNICATION INPORMATION:
                                                                                                                                                                                                                                                               E: ZymoGenetics, Inc.
1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acida
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 32.04
Matches 74; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenet
                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                    Seattle
                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                       ZIP: 98102
RESULT 12
US-08-943-087-28
                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JS-08-943-087-28
                                                                                                                                                                                                                                                                                                                  STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

```
90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             76 -----YGQKKWINKSECRNINRTYCDLSABTSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127 GRFYPFLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSWQQIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30 KPORVOFOSRNFHNILOWOPGRALTGNSSVYFVOYKIMFSCSMKSSHOKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           209 NNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            187 NTKSNRTWSQCVTNHTLV-LTWLEPNTLYCVHVESFVPGPPRRAQPSEKQC 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        39 KPANITFLSINMKNVLOWTPPEGLOGVKVTYTVOYFI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 32.0%; Pred. No. 9.3e-27;
Matches 74; Conservative 33; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SUFFWARE: FastESD for Windows Version 2.0
SUFFWAREINT APPLICATION DISK:
APPLICATION NUMBER: US/08/943,087
APPLICANT: Lok, Si
APPLICANT: Kho, Choon J.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Jelmberg, Anna C.
APPLICANT: Mitmore, Theodore E.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farran, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
STREET: 1201 Bastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
CLASSIFICATION 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/803,305
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
RAGISTRATION NUMBER: 32,743
REGISTRATION NUMBER: 96-24C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-943-087-32
; Sequence 32, Application US/08943087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   553 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                    ZIP: 98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
```

RESULT 13

```
98102
                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: WP
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-943-087-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      90 FPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      76 -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDXY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     127 GRFYPFLETQIGPPEVALITDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39 KPANITFLSINMKAVLOWTPPEGLOGVKVTYTVOYPI ------75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMXSSHQXPSGCWQHISCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   209 NNSLEKEQKVYEGAHRAVEIEALIPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 21.6%; Score 310; DB 2; Length 553; Best Local Similarity 32.0%; Pred. No. 9.3e-27; Matches 74; Conservative 33; Mismatches 90; Indels 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
COMPUTER: Diskette
APPLICATION NUMBER: US/08/943,087
ATTORNY ARENT INFORMATION:
NAME: LUAN, PAUL G
ATTORNY AGENT INFORMATION:
NAME: LUAN, PAUL G
REGISTRATION NUMBER: 32,743
REGISTRATION NUMBER: 32,743
REGISTRATION NUMBER: 96-24C1
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:
TELEBCOMMUNICATION INFORMATION:

                           GENERAL INFORMATION:
APPLICANT: Lok, Si
APPLICANT: Mo, Choon J.
APPLICANT: Adams, Robyn L.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR
NUMBER OF SEQUENCES: 60
CORRESPENDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
                                                                                                                                                                                                                                                                                                                                             STATE: WA COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-943-087-34
; Sequence 34, Application US/08943087
; Batent No. 5945511
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: 32:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 206-442-6627
TELEFAX: 206-442-6678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
Patent No. 5945511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-943-087-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
90 FPGCRTLAKYGQRQWKWKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              76 -----YGQKKWINKSECRNINRTYCDLSAETSDYEHQYYAKVKAIWGTKCSKWAES 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             150 PRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYY-ELLYRVFII 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                127 GRFYPPLETQIGPPEVALTTDEKSISVVLTAPEKWKRNPEDLPVSMQQIYSNLKYNVSVL 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCN 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 21.6%; Score 310; DB 2; Length 553;
Best Local Similarity 32.0%; Pred. No. 9.3e-27;
Matches 74; Conservative 33; Mismatches 90; Indels 34; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209 NNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
OPERATING SYSTEM: DOS
CUSTRARE: FRE45ED for Windows Version 2.0
CUSTRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,087
APPLICANT: Kho, Choon J.
APPLICANT: Adamberg, Anna C.
APPLICANT: Adamberg, Anna C.
APPLICANT: Adamberg, Robyn L.
APPLICANT: Wiltmore, Theodore E.
APPLICANT: Farrah, Theresa M.
TITLE OF INVENTION: CYTOKINE RECEPTOR NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
STREET: 1201 Eastlake Avenue East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Search completed: December 12, 2003, 12:16:32
Job time : 26.8542 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08/803,305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION 536
PRIOR APPLICATION DATA
APPLICATION NUMBER: 08/803,300
FILING DATE: 20-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lunn, Paul G
REGISTRATION NUMBER: 32,743
REFERENCE/DOCKET NUMBER: 96-2:
TELECHMONICATION:
TELECHMONICATION:
TELECHMONICATION:
TELECHMONICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                      E: Diskette
IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                       USA
```

```
5.1.6
Compugen Ltd.
 GenCore version (c) 1993 - 2003
           Copyright
```

sw model OM protein - protein search, using

December 12, 2003, 12:23:03; Search time 24.0712 Seconds (without alignments) 1050.732 Million cell updates/sec Run on:

US-10-047-264A-4 Title: Perfect score:

1 MMPKHCFLGFLISFFLTGVA......YQPMLDRRSQRSEERCVEIP 263 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283308 Total number of hits satisfying chosen parameters:

283308 seqs, 96168682 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 76:*
1: pir1:*
3: pir2:*
5: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

G	interleukin-10 rec	tissue factor prec	interferon alpha r	interferon recepto	interleukin-10 rec	cytokine receptor	tissue factor prec	interferon alpha/b	interferon alpha/b			tissue factor prec	ron	interferon alpha-b					structural polypro	Kallmann syndrome	Kallmann syndrome	structural polypro	hypothetical prote	interferon gamma r	ribonucleoside-dip	probable phospholi		probable transcrip	RNA binding protei
OI OI	A49667	KFHU3	S27387	JC6311	156215	A47003	KFB03	A32694	A45283	KFRB3	A31555	KFMS3	A49947	I39073	A54295	S59501	138500	VHWV	S42462	A47222	B47222	837136	T02748	A34368	S16680	E71550	T13928	T13929	T41065
Length DB	575 2	ın	560 2	ω.	···	'n	292 1	557 2	590 2	292 1	489 2	294 1	332 2	515 2	331 2	331 2	337 2	1253 1	755 2	674 2		1145 2			~	0	059	_	
& Query Match	11.5	11.4	11.0	10.9	10.8	10.4	7.6	9.5	4.6	•	9.8		7.7	7.2	7.1	7.1	6.4	6.3	6.1	6.1	6.1	6.1	٠	0.9	5.3	•	9	5.9	
Score	164.5	163	158	156	155	149.5	138.5	136.5	134.5	132.5	122.5	\sim	110.5	103.5	101.5	101.5	92	06		87.5	٠	87	87	98	82	85	82	85	84.5
Result No.	-	7	m	4	Ŋ	v	7	6 0	Φ	10	11	12	13	14	15	16	17	18	19	20	21	22				56	27	28	29

tissue factor precursor [validated] - human N;Alternate names: coagulation factor III C;Species: Homo sapiens (man) C;Dates: 30-Sep-1993 #sequence revision 30-Sep-1993 #text change 08-Dec-2000 C;Accession: A43645; A47574; A28320; A29062; A29672; A29008

RESULT 2

gene B9R protein - hypothetical prote	hemolysin export s hypothetical prote	hypothetical prote	calpain (BC 3.4.22 structural polypro	hemolysin secretio beta-glucosidase h	IL-13Ralpha 1 prot choline kinase (EC	hypothetical prote probable exported	hypothetical prote
136855 T02623	LEECD T15972 B86834	T25489 T21423	S57196 VHWVN2	S10058 T02128	JC7773 A32034	T01041 AF0911	AG2311
266 2 479 2	478 1 650 2 456 2	430 2 564 2		478 2 527 2	426 2 582 2		335 2
ი ი. ი. ი.		5.7	-	5.6	0.0 0.0	5.6	5.5
83	82.5	818	81 81	80.5 80.5	8 8	80 79.5	79
30	 	989	37 38	39 40	4 4 2 2	4 4 4 4	45

ALIGNMENTS

```
66 IMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETS 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           126 DIQEPYYG---RVRAASAGSYSEWSMT-PRFTPWWETKIDPPVMNITQV----NGSLLV 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :| | : : | : | : | | | 145 TIHPP------RPTITPAGDEYEQVFKDLRVYKI--SIRKFSEL-KNATKRVKQETFTL 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 FLGFLISFFLTGVA-GTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYK 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interleukin-10 receptor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 28-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CiAccession: A49667
Ribo, A.S.; Liu, Y.; Khan, T.A.; Hsu, D.H.; Bazan, J.F.; Moore, K.W.
Proc. Natl. Acad. Sci. U.S.A. 90, 11267-11271, 1993
A;Title: A receptor for interleukin 10 is related to interferon receptors.
A;Reference number: A49667; MUD: 94068585; PMID: 8248239
A;Accession: A49667
A;Atatus: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-575 <RES>
A;Cross-references: GB: L12120; NID: 9437615; PIDN: AAA16156.1; PID: 9437616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     177 ILHAPNLPYRYQKEKNVSIEDYYELLY---RVFIINNSLEKEQKVYEGAHRAVEIEALT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels 77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 575;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  195 TVPIGVRKFCVKV---LPRLESRINKAEWSEEQCLLI 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
11.5%; Score 164.5; DB 2
Best Local Similarity 26.7%; Pred. No. 1.4e-06;
Matches 74; Conservative 37; Mismatches 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      233 ----PHSSYCVVARIYOPMLDRR----SQRSEBRCVEI
                                                                                                                                                                                                                                                                                                                                                            A;Gene: 1110r
C;Superfamily: interleukin-10 receptor 1L10R
C;Keywords: cytokine receptor
A49667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

16;

Gaps

```
SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                  STKSG---
                                                             71
                                                                                                                                                                                                                                                                                                 238
                                                                                                                                                                                                                                                                                                                                                218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         368
                                                        g
                                                                                                            ò
                                                                                                                                                셤
                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                 ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
A/ACCESION: A2389/2
A/ACCESION: A2389/2
A/ACCESION: A2389/2
A/ACCESION: A2389/2
A/ACCESION: A2389/2
A/ACCESION: A2389/2
A/CCOSE = 1-259, A., 261-295 <SCCA>
A/ACCESION: A261-295 <SCCA>
A/ACCESION: A27-4231, 1988
A/ATCE: Human tissue factor contains thioseter-linked palmitate and stearate on the cyt
A/ATCE: Human tissue factor contains thiosester-linked palmitate and stearate on the cyt
A/ATCE: Human tissue factor contains thiosester-linked palmitate and stearate on the cyt
A/ATCESION A/ACCESION A/ACCES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F;277/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 295;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11.4%; Score 163; DB 1; 23.4%; Pred. No. 7.8e-07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F;156,169/Binding site: carbohydrate (Asn)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 62
```

13;

Gaps

58;

Indels

45; Mismatches 100;

Conservative

62;

8

11 LISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70

```
A;Title: Specific antiviral activities of the human alpha interferons are determined A;Reference number: $27387; MUID:93076908; PMID:1446745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                   237
----DWKSK--CFYTTDTECDLTDEIVKDVKO 101
                                                                             130 PYYGRV-----RAASAGSYSE--WSMTPRFTPWWETKI-DPPVMNITQVNGSLLVILHA 180
                                                                                                                     102 TYLARVESYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVED 161
                                                                                                                                                                                                                                                                                                             217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        142 SYSEWSMIPRFIPWWEIKIDPPVMMITQV-NGSLLVILHAPNLPYRYQKEKNVSIEDYYE 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 82 CWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAG 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      314 GISFWSEEKEFNTEMKTIIFPPVISVKSVTDDSLHVSVGAS-----EESENMSVNQLYP 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rilim, J.K.; Langer, J.A.
Biochim. Blochim. Bloch B.A. Title: Cloning and characterization of a bovine alpha interferon receptor. A; Reference number: S33770; MUID:93305725; PMID:8318540
A; Recession: S33770
A; Status: preliminary; nucleic acid sequence not shown
A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interferon alpha receptor type 1 precursor - bovine C;Species: Bos primigenius taurus (cattle) C;Decies: Bos primigenius taurus (cattle) C;Decies: 13na-1995 #sequence_revision 13-Jan-1995 #text_change 05-Nov-1999 C;Accession: S27387; S33700 R;Mouchel-Vielh, E.; Lutfalla, G.; Mogensen, K.E.; Uze, G. FEBS Lett. 313, 255-259, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPML--DRRSQRS 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Species: Mus musculus (house mouse)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 11-May-2000
                                                                                                                                                                                                                               181 PNLPYRYQKEKNVSIEDYY--ELLYRVFIINNSLEKEQKVYEGAHR-AVEIEALTPHSSY
                                                                                                                                                                                                                                                                                162 BRTLVR-RNNTFLSLRDVFGKDLIYTLYYWKSSSGKKTAKTNTNEFLIDVD---KGENY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTERHKVPSPENIOINADNOIYVLKWD----YPYENATFOAOWLRAFFKKIPGNHSD---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Residues: 1-421,'V',423-560 <LIM>
;Cross-references: EMBL:L06320; NID:g163187; PIDN:AAA02571.1; PID:g163188
;Experimental source: lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PID:9432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
11.0%; Score 158; DB 2; Length 560;
Best Local Similarity 24.1%; Pred. No. 4.9e-06;
Matches 57; Conservative 38; Mismatches 100; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Keywords: antiviral; cytokine receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A.Residues: 1-560 <MOU>
A.Residues: 1-560 <MOU>
A.Cross-references: EMBL:X68443; NID:g431; PIDN:CAA48484.1;
A.Experimental source: MDBK cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fil-24/Domain: signal sequence #status predicted <SIG> Fi25-560/Product: interferon alpha receptor type 1 #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Accession: S27387
A;Status: preliminary, nucleic acid sequence not shown
A;Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interferon receptor-class II cytokine receptor - mouse
                                                                                                                                                                                                                                                                                                                                                                                      C--VVAEIYOPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                                                                                                                                                  CFSVQAVIPSRTVNRKSTDSPVECM 242
```

```
A, Status: preliminary
                                                                                                          a
                                                   ò
                                                                                                                                                                                    ò
                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13;
                                                                                                                     mouse proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ------YTVRVRAELADEHSEW-VNVTPCPVEDTIIGPPEMQIESLAESLELR 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VQYKIMFS----CSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELS 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            118 CDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVI 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    178 LHAPNLPYRYOKE-----KNVSIEDYYELLYRV-FIINNSLEKEQKVYEGAHRAVEIEA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWRNKEDCWGTQELSCDL 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 TSETSDI -- QEPYYGRVRAASAGSYSEWSMT-PRFTPWWETKIDPPVMNITQV----NG 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CVAGWLGGFLLVPALGMIP-----PPEKVRMNSVNFKNILQWEVPAFPKTNLT----FT 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 CFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQ----PGRALTGNSSVYF 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Homo sapiens (man)
C;Date: 02-ulu-1996 #sequence_revision 02-Jul-1996 #text_change 28-Jul-2000
C;Date: 02-ulu-1996 #sequence_revision 02-Jul-1996 #text_change 28-Jul-2000
C;Accession: 156215
R;Liu, Y: Wei, S.H.; Ho, A.S.; de Waal Malefyt, R.; Moore, K.W.
J. Immunol. 152, 1821-1829, 1994
A;Title: Expression cloning and characterization of a human IL-10 receptor.
A;Reference number: 156215, MulD:94165477; PMID:8120391
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 156215
A;Accession: 166215
A;Accession: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNİLQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross-references: EMBL: U00672; NID: 9482802; PIDN: AAA17896.1; PID: 9482803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          70;
C;Accession: JC6311
R;Gibbs, V.C.; Pennica, D.
Gene 186, 97-101, 1997
A;Title: CRF2-4:isolation of cDNA clones encoding the human and 1
A;Reference number: JC6311; MUID:97199375; PMID:9047351
A;Accession: JC6311
A;Status: preliminary
A;Residues: 1-349 cGIB>
                                                                                                                                                                                                                                                                                                                                                                                               Length 349;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10.8%; Score 155; DB 2; Length 578; 22.9%; Pred. No. 9.5e-06; Live 42; Mismatches 103; Indels
                                                                                                                                                                                                                                                                                                                                                                                        Query Match
10.9%; Score 156; DB 2; Length 349
Best Local Similarity 26.8%; Pred. No. 4e-06;
Matches 72; Conservative 30; Mismatches 89; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 LEPWTTYCIQVQGFLLDQNRTGEWSEPIC 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A,Gene: GDB:LL10R, HIL-10R
A,Cross-references: GDB:330958, OMIM:146933
A;Map position: 11q23.3-11q23.3
C,Superfamily: interleukin-10 receptor IL10R
C;Keywords: cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    interleukin-10 receptor - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 22.9
Matches 64; Conservative
                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:U53696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
cytokine receptor family class II protein CRF2-4 precursor - human C; Species: Home sapiens (man)
C; Species: Home sapiens (man)
C; Date: 09.5Ep-1994 #sequence_revision 09-Sep-1994 #text_change 01-Dec-2000
C; Accession: A47003; G01418
R; Lutfalla, G.; Gardiner, K.; Uze, G.
R; Lutfalla, G.; Gardiner, K.; Uze, G.
A; Title: A new member of the cytokine receptor gene family maps on chromosome 21 at less the family maps on chromosome 21 at less the family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at less than the cytokine receptor gene family maps on chromosome 21 at le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                œ
..
                                                                             173 SLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVF-IINNSLEKEOKVYEGAHRAVEIEAL 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99 DW-VNITFCPVDDTIIGPPGMQVEVLADSLHMRFLAPKIENEYETWTMKNV----YNSWT 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 NFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYG----RVRAASAGSYS 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   145 EWSMIPRFIPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQ--KEKNVSIEDYYELL 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63 -----YGDHTLRAEFADEHS 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31 PQRVQFQSRNFHNILLQWQPGRALTGN--SSVYFVQYKIMFSCSMKSSHQKPSGCWQHISC 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fiseue factor precursor - bovine
NiAlternate names: coagulation factor III
Cipecies: Bos primicentus taurus (cattle)
Cipecies: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
Cipecession: JQ139 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
Cipecession: JQ139 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
Cipecession: JQ139 #sequence_revision 30-Sep-1993 #text_change 22-Jun-1999
Cipecession: JQ1319 #sequence_revision 30-Sep-1993
A;Reference number: JQ1319; MUID:92109720; PMID:1764065
A;Accession: JQ1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       203 YRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A,Molecule type: mRNA
A,Residues: 1-325 <LUT>
A,Cross-references: GB:Z17227; NID:g393378; PIDN:CAA78933.1; PID:g393379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                59;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 325;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                              232 TPHSS----YCVVAEIYOPMLDRRSQR---SEERCVEI 262
                                                                                                                                                                                                                                                                                                              191 SLLTSGEVGEFCVQV---KPSVASRSNKGMMSKEECISL 226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cross-references: EMBL: U08988; NID: 9571295; PID: 9571296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24 PENVRMNSVNFKNILOWESPAFAKGNLTFTAQYLSYRIF---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 24.1%; Pred. No. 1.4e-05;
Matches 57; Conservative 32; Mismatches 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary, translated from GB/EMBL/DDBJ
A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ritutfalla, G. submitted to the EMBL Data Library, April 1994 Wheference number: G06935 A;Accession: G01418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A)Gene: GDB:CRFB4; CRF2-4
A)Cross-references: GDB:138168; OMIM:123889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A, Residues: 1-123,'D',125-268,'VGRME' <LU2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Map position: 21q; 21q22.1-21q22.2
A;Introns: 17/1; 58/2; 111/1; 166/3; 216/1
C;Keywords: transmembrane protein
```

```
F;437-455/Domain: transmembrane #status predicted <TRN2>
F;50,58,81,88,110,172,254,313,314,376,416,433,507,518,537/Binding site: carbohydrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Cross-references: EMBL: U06241; NID: 9497110; PIDN: AAA65006.1; PID: 9755812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QWLHAFLKRNPGNH------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      243 IY--QPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AHTMDEKLNKSSVFSDAVC 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 265-375 < RE4>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: DNA
A;Residues: 118-125 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Residues: 397-424 < RE5 >
                                                                                                                                                                                                                                                                                                                                                                PVHCI ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A,Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A, Accession: 148425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: I48426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: I48427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A, Accession: A45283
                                                                                                                                                                                                                                                                                                                                                                                                                                               63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    354
                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                               q
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cyncession: A32694, 51712.
Cyll 60, 225-234, 1990
A/Title: Genetic transfer of a functional human interferon alpha receptor into mouse cell 60, 225-234, 1990
A/Title: Genetic transfer of a functional human interferon alpha receptor into mouse cell A/Reference number: A32694, MulD:90124632, PMID:2153461
A/Reference number: A32694, MulD:90124632, PMID:2153461
A/Residues: 1-557 <UZE>
A/Residues: 1-557 <UZE>
A/Residues: 1-557 <UZE>
A/Reference number: SIJ112
A/Reference number: SIJ112
A/Reference number: SIJ112
A/Reference number: SIJ112
A/Reference number: SIJ112
A/Residues: 1-16, A4, 18-329, VV, 343-557 <LUT>
A/Residues: 1-16, A4, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-557 <LUT>
A/Residues: 1-16, A7, IR-329, VV, 343-5
                 Residues: 1-292 <TAK>
(Cross-references: GB:874147; NID:g241438; PIDN:AAB20755.1; PID:g241439
(Experimental source: adrenal gland
(Experimental source: adrenal gland
(Experimental source: not adjust the amino end of the mature protein, was confir comment: Tissue factor is an integral membrane glycoprotein that serves as a receptor (Comment: Expression of tissue factor can be induced in a variety of tissues by certain (Superfamily: tissue factor
                                                                                                                                                                                                                                                                                                            (Keywords: blood coagulation; glycoprotein; lipoprotein; thiolester bond; transmembrane 3:1-35/Domain: signal sequence #status predicted <SIG>):1-35/Domain: signal sequence #status predicted <SIG>):2-29/Product: tissue factor #status predicted <TMN>):36-248/Domain: extracellular #status predicted <TMN>):36-248/Domain: transmembrane #status predicted <TMN>):272-292/Domain: intracellular #status predicted <INT>):43-153/Isl/Binding site: carbohydrate (Asn) (covalent) #status predicted ;181-89,215-238/Disulfide bonds: #status predicted ;118,124/Binding site: carbohydrate (Thr) (covalent) #status predicted ;124/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      102 TYLARVLSYPADTSSSTVEPPFTNSPEFTPYLETNLGQPTIQSFEQVGTKLNVTVQDART 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                130 PYYGRVRAASAGSYSE----WSMTPRFTPWWETKI-DPPVMNITQVNGSLLVILHAPNL 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   184 PYRYOKEKNVSIEDYY--ELLYRVFIINNSLEKEOKVYEGAHR-AVEIEALTPHSSYC-- 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     162 LVR-ANSAFLSLRDVFGKDLNYTLYYWKASSTGKKKATTNTNGFLIDVD---KGENYCFH 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Gene: GDB:IFNAR1; IFNAR; IFRC
A;Cross-references: GDB:120078; OMIM:107450
A;Rvap position: 21q22.1-21q22.1
A;Introns: 26/12; 126/11/17/3; 225/1; 263/2; 342/1; 381/3; 432/1; 480/3
C;Keywords: cytokine receptor; glycoprotein; transmembrane protein
P;1-21/Domain: transmembrane #status predicted <FRN1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 LISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interferon alpha/beta receptor precursor - human
C,Species: Homo sapiens (man)
C,Date: 22.Jun-1990 #sequence_revision 22-Jun-1990 #text_change 22-Oct-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 LFGLVLIQGAGVAGTTDVVVAYNITWKSTNFKTILEWEPKPI----NHVYTVQIS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        55,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 9.7%; Score 138.5; DB 1;
Best Local Similarity 22.6%; Pred. No. 0.00011;
Matches 59; Conservative 43; Mismatches 104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        239 VVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        218 VQAVILSRRVNQKSPESPIKC 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
```

```
A,Title: Structure of the murine interferon alpha/beta receptor-encoding gene: high-fr A,Reference number: 148423; MUID:95047447; PMID:7958966 A;Accession: 148423 A;Accession: I48423 A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           interferon alpha/beta receptor - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 25-Mar-1993 #sequence revision 18-Nov-1994 #text_change 05-Nov-1999
C;Accession: A45283; 148423; 148424; 148425; 148426; 148427; 148428; 148429
R;Uze, G; Lutfalla, G; Bandu, M.T.; Proudhon, D.; Mogensen, K.E.
Proc. Natl. Acad. Sci. U.S.A. 89, 47144778; 1992
A;Title: Behavior of a cloned muxine interferon alpha/beta receptor expressed in homos A;Reference number: A45283; MUID:92262522; PMID:1533935
                                                                                                                                                                                                                        -----LYKWKQIPDCENVKTTQCVFPQ 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTS 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAPN 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 183 LPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAE 242
                                                                                                                                                                3 PKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:U06237; NID:g497103; PIDN:AAA65003.1; PID:g755810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 127-224 <RE2>
A;Cross-references: EMBL:U06238; NID:g497104; PIDN:AAC01749.1; PID:g755811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 243-264 <RE3>
A;Cross-references: EMBL:U06239; NID:g497106; PIDN:AAA65004.1; PID:g510261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: EMBL:U06240; NID:g497108; PIDN:AAA65005.1; PID:g510262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PID:9194112
NCBIP:102357)
                                                                              51;
Query Match 9.5%; Score 136.5; DB 2; Length 557; Best Local Similarity 20.8%; Pred. No. 0.00039; Matches 54; Conservative 39; Mismatches 115; Indels 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A, Molecule type: mRNA
A, Roberdues: 1-590 «UZE»
A, Cross-references: GB: M89641; NID: g194111; PIDN: AAA37890.1;
A, Note: sequence extracted from NCBI backbone (NCBIN: 102354,
R; Lutfalla, G: UZe, G.
Gene 148, 343-346, 1994
A, Title: Structure of the murine interferon alpha/beta recept.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A, Accession: 148424
A, Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Status: preliminary; translated from GB/EMBL/DDBJ
```

```
Query Match
Best Local Similarity 22.2*
Matches 62; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-489 <AGU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Accession: A31555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                          ò
                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A Molecule type: mRNA

A; Residuaes: 1-292 <AND>
A; Residuaes: 1-292 <AND>
A; Cross-references: GB:M55390; NID:g165696; PIDN:AAA63469.1; PID:g165697
A; Experimental source: brain
B; Pawashe, A.; Ezekowitz, M.; Lin, T.C.; Horton, R.; Bach, R.; Konigsberg, W.
Thromb. Haemost. 66, 315-320, 1991
A; Title: Molecular cloning, characterization and expression of cDNA for rabbit brain tis
A; Reference number: S23681; MUID:92081032; PMID:1746002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Keywords: blood coagulation, glycoprotein; lipoprotein; thiolester bond; transmembrane F;1-32/Domain: signal sequence #status predicted <SIG>F;1-32-20-Product: tissue factor #status predicted <MAT>F;33-29-Product: tissue factor #status predicted <MAT>F;33-29-Product: transmembrane #status predicted <EXT>F;25-271/Domain: extracellular #status predicted <TMM>F;22-292/Domain: intransmembrane #status predicted <TMM>F;31-14-154-167,182/Binding site: carbohydrate (Asn) (covalent) #status predicted F;79-87,216-239/Disulfide bonds: #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A,Accession: $23681
A,Status: preliminary
A,Molecule type: mRNA
A,Molecule type: mRNA
A,Residues: 33-292 <PAM>
A,FROSS-references: EMBL:X53521; NID:g1495, PIDN:CAA37597.1; PID:g3980170
C,Comment: Tissue factor is an integral membrane glycoprotein that serves as a receptor C;Comment: Expression of tissue factor can be induced in a variety of tissues by certain C;Superfamily: tissue factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Figure factor precursor - rabbit

NyAlternate names: cosqulation factor III

Cispecies: Oryctolagus cuniculus (domestic rabbit)

Cibate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jul-2000

Cibate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jul-2000

Cibate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jul-2000

Cibate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jul-2000

Cibate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jul-2000

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Cibate: 30-Sep-1993 #sequence_revision No.

Airticle: Conservation of tissue factor primary sequence_among three mammalian species.

Airticle: Conservation of tissue factor primary sequence_revision.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    56 NSSVYFV--QYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKY----GQRQWKNKEDC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     111 WGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQV 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QHTTTTKCEFSLLDTNVYIKTQFRVRAEEGNSTSSWNEVDPFIPFYTAHMSPPEVRLEAE 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NGSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIBA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :::|| : | : : |: : |: DGGNNWALEKPSFSYTIRIWQKS-SSDKKTINSTYYVEKIPE 191
A,Accession: 148428
A,Status; preliminary; translated from GB/EMBL/DDBJ
A,Molecule type: DNA
A,Molecule type: DNA
A,Residues: 426-445 <RE6>
A,Cross-references: EMBL:U06242; NID:g497112; PIDN:AAA65007.1; PID:g755813
A,Accession: 148429
A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Rolecule type: DNA
A,Residues: 473-590
A,Residues: 473-590
A,Residues: 473-590
A,Gene: IFNAR
A,Introns: 177/3; 331/1
C;Keywords: cytokine receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            34 NIDVYIIDDNYTLKW-----SSHGESMG-----SVTFS-----AEYRIKDEAKWLKVPEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F.79-87,216-239/Disultide bonds: #widing processing experimental F:274/Binding site: palmitate (Cys) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 9.4%; Score 134.5; DB 2 Best Local Similarity 21.4%; Pred. No. 0.00063; Matches 45; Conservative 39; Mismatches 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LTPHSSYCVVARIYOPMLDRRSORSEERCV 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          192 LLPETTYCLEVKAIHPSLKKHSNYSTVQCI 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Accession: JU0441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . 심
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

```
71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWRNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                                                                                                                                                                                                                                                                                                                                                                                   130 PYYGRV-----RAASAGSYSE---WSMTPRFTPWWETKIDPPV------MNITQVN 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100 TYMARVLSYPARNGNTIGFPEEPPFRNSPEFTPYLDTNLGQPTIQSFEQVGTKLNVTVQD 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --- RVFIINNSLEKEQKVYEGA 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    160 ARTLVRRNGTFLSLRAVFGKDLN-----YTLYYWRASSTGKKTATTNTNEFLIDVDKGE 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64 YKIM----FSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSC 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                119 DLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVIL 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             86 NISDHVGDPSNSLWYRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDIRKEEKQIMIDI 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           146 FHPSV-FVNGDEQEV---DYDPETTCYIRVYNVYVRANGSEIQYKILTQKEDDCDEIQCQ 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    interferon gamma receptor precursor - human
C;Species: Homo sapiens (man)
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 23-Jul-1999
                                                                                                                                         11 LISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC
                                                                                                                                                                                                         21 LIGWLLAQVARAADT--TGRAYNLTWKSTNFKTILEWEP-----KSIDHV-YTVQIST
                                                                                                                                                                                                                                                                                                                                                          FLISFFLTGVA----GTQSTHESL--KPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 FLLPLVMQGVSRAEMGTADLGPSSVPTPTNVTIESYNMNPIVYW-----E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        50 YOIMPOVPVFTVEVKW-------YGVKNSEWIDACINISHHYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Cross-references: GB: J03143; NID: 9184650; PIDN: AAAS2731.1; PID: 9306915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RiAguet, M.; Dembio, Z.; Merlin, G.
Cell 5: 273-280; 1988
A;Title: Molecular cloning and expression of the human interferon-gamma
A;Reference number: A31555; MUID:89003065; PMID:2971451
                                                                    89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          71,
   Length 292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 179 HAPNLPYRYQKEKNVSIEDY-----YELLYRVFIINNSLEKEQKVYE---
                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERCVE 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  224 RAVEIEALTPHSSYCVVAEIYOPMLDRRSQRSEERCVEI 262
9.3%; Score 132.5; DB 1;
22.2%; Pred. No. 0.00039;
ive 39; Mismatches 89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 8.6%; Score 122.5; DB 2; Best Local Similarity 20.1%; Pred. No. 0.0057; Matches 56; Conservative 49; Mismatches 103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            202 LAIPVSSL--NSQYCVSAEGVLHVWGVTTEKSKEVCITI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Map position: 6q23-6q24
C;Superfamily: interferon gamma receptor
C;Keywords: cytokine receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               172 GSLLVILHAPNLPYR--YQKEKNVSIEDYYELLY---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A,Gene: GDB:IFNGR1; IFNGR
A,Cross-references: GDB:120688; OMIM:107470
```

Length 332;

DB 2; 99;

```
A;Cross-references: GB:869336; NID:g545841; PIDN:AAB30165.1; PID:g545842
A;Experimental source: early B-cell line Y16
A;Note: sequence extracted from NCBI backbone (NCBIN:145654, NCBIP:145656)
C;Keywords: cytokine receptor
                                                                                                                                                                                               7.7%; Score 110.5; DB
20.2%; Pred. No. 0.04;
Lve 33; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Residues: 1-150,'M', 152-515 <LUT>
                                                                                                                                                                                                                           Best Local Similarity 20.2%;
Matches 51, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | |: ||:
LKPYRVYCLQTE 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LTPHSSYCVVAE 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 46; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-515 < RES>
                     A, Residues: 1-332 <HEM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: S59502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Accession: I39073
                                                                                                                                                                                                                                                           51,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            197
                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 14
                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
Krewss Krews Andreace Caequation feator III

Cybectes: Mus musculus (house mouse)

Cybectes: Mus musculus (house mouse)

Cybectes: Mus musculus (house mouse)

Cybectes: Mus musculus (house mouse)

Cybectes: Musculus (house mouse)

Cybectes: Musculus (house mouse)

Cybectes: Musculus (house mouse)

Cybectes: Musculus (house mouse)

Ayelecteric Biol, 9, 256-253, 1899

Aythle: A growth factor-responsive gene of murine BALB/c 3T3 cells encodes a protein hor systemate type: maxwa

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house mouse)

Ayelectes: Musculus (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Musculus (house)

Cycomment: Musculus (house)

Ayore: 26-Thr was also found

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue factor (house)

Cycomment: Expression of tissue fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              interferon gamma receptor beta subunit - mouse
interferon gamma receptor beta subunit - mouse
interferon gamma receptor beta subunit - mouse
interferon gamma receptor beta chain; IFN-gamma R species-specific cofactor; type
C;Species: Mus musculus (house mouse)
C;Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C;Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C;Accession: R; Bohni, R.; Stark, G.; Di Marco, F.; Aguet, M.
Cell 76, 803-810, 1994
A;Title: A novel member of the interferon receptor family complements functionality of A;Reference number: A49947; MUID:94170381; PMID:8124717
A;Accession: A49947
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TS 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DIQEPYYGRVRAASA----- 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                165 ---MNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEG 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         152 GRKLNVVVKDSLTLVRKNGTFLTLRQVFGKDLG----YIITYRK---GSSTGKKTNITNT 204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ------RNWKNK--CFSTTDTECDLTDEIVK 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 FLGCLL-LQVTAGAGIPE-----KAFNLTWISTDFKTILEWQP----KPTNYTYTVQ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 FLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8.5%; Score 122; DB 1; Length 294; 22.7%; Pred. No. 0.0033; tive 36; Mismatches 100; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                205 NEFSIDVE---EGVSYCFFVQAMIFSRKTNQNSPGSSTVCTE 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       222 AHRAVEIEALTPHSSYC--VVAEIYOPMLDRRSORSEERCVE 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 Similarity 22.73
64; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             64 ---ISDRS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
```

```
C;Date: 24-May-1996 #sequence_revision 24-May-1996 #text_change 01-Dec-2000 C;Accession: I39073; S59502 E;Accession: I39073; S59502 E;Accession: I39073; S59502 E;Accession: I39073; S59502 E;Domanski, P.; Witte, M.; Kallum, M.; Rubinstein, M.; Hackett, R.; Pitha, P.; Colamon J. Biol. Chem. 270, 21606-21611, 1995 A;Title: Cloning and expression of a long form of the beta subunit of the interferon a A;Reference number: I39073; MUID:95394915; PMID:7665574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A, Cross-references: EMBL:U29584; NID:9993040; PIDN:AAC50202.1; PID:9993041
R; Lutfalla, G.; Holland, S.J.; Cinato, E.; Monneron, D.; Reboul, J.; Rogers, N.C.; Smi EMBO J. 14, 5100-5108, 1995
A; Title: Mutant U5A cells are complemented by an interferon-alpha-beta receptor subuni A; Reference number: S59501; MUID:96067138; PMID:7588638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Status: preliminary; nucleic acid sequence not shown; not compared with conceptual t
                                                                                                                                                               65 KIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLT--S 122
                                                                                                                                                                                                                                                                                                                          123 ETSDIQEPY--YGRVRAASAGSYSEWSMTPRFTPWWETKIDPPV-MNITQVNGSLLV--- 176
                                                                                                                                                                                                                                                                                                                                                                                                          96 RLKLFPHPFTVFLRVRÅKRGNLTSKWVGLEPFQHYENVTVGPPKNISVTPGKGSLVIHFS 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----ILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHR--AVEIBA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ----KSETQQEQVEGPFKSNSIVLGN 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 YGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWET 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -- PEDLKVVKNCANTTRSFCDLTDEWRSTHEAYV-TVLEGFSGNTTLFSCSHNFWLAIDM 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                          -----EPNCTDITETKCDLTGGG 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98
                                                  159 KIDPPVMNITQVNGSLLVILHAPNL-PYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQK
10 FLISFFLTGVAGTQSTHESLK----PQRVQFQSRNFHNILQWQPGRALTG-NSSVYFVQY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39 RNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A,Cross-references: GB:L41942, NID:g995292, PIDN:AAB46413.1; PID:g995293
C,Keywords: alternative splicing; cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 515;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interferon alpha-beta receptor, beta subunit long form - human C; Species: Homo sapiens (man)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7.2%; Score 103.5; DB 2; llarity 20.3%; Pred. No. 0.29; Conservative 39; Mismatches 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     156 PPFDVFHGATFQY-----LVHYWE--
                                                                                                                                                                                                                                              67 SFI------DGSWHRLL----
```

```
RESULT 15
A54295
interferon alpha/beta receptor precursor - human
C;Species: Homo sapiens (man)
C;Decies: Homo sapiens (man)
C;Dete: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 05-Nov-1999
C;Accession: A54295
R;Novick, D: Cohen, B.; Rubinstein, M.
Cell 77, 391-400, 1994
A;Title: The human interferon alpha/beta receptor: characterization and molecular clonin
A;Reference number: A54295, MUID:94236684; PMID:8181059
A;Scatus: preliminary
A;Reference type: mRNA
A;Residues: 1-331 <NOV>
A;Cross-references: GB:X77722; NID:9488363; PIDN:CAA54785.1; PID:9488364
C;Keywords: cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99 YGOROWKNYKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWET 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              159 KIDPPVMNITQVNGSLLVILHAPNL-PYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQK 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      39 RNFHNILQWQPGRALTGNSSVYFVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 7.1%; Score 101.5; DB 2; Length 331; Best Local Similarity 20.3%; Pred. No. 0.25; Matches 46; Conservative 39; Mismatches 99; Indels 43.
218 VYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQ-RSEERCVEIP 263
187 GNMSGNFTYIIDKLIPNTNYCV--SVYLEHSDEQAVIKSPLKCTLLP 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        218 VYEGAHRAVEJEALTPHSSYCVVAEIYOPMLDRRSQ-RSEERCVEIP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search completed: December 12, 2003, 12:28:00 Job time : 26.0712 secs
    ઠે
                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ठ
```

```
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
```

OM protein - protein search, using sw model

December 12, 2003, 12:16:38; Search time 16.939 Seconds (without alignments) 730.151 Million cell updates/sec Run on:

US-10-047-264A-4 1432 1 MMPKHCFLGFLISFFLIGVA......XQPMLDRRSQRSEERCVEIP 263 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

127863 segs, 47026705 residues Searched:

127863 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_41:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARTES

		Description	-		pog	mus 1	homo	homo	bos t	cavi		ovis		P24055 oryctolagus		mus r		ovis	bost	homo	homo	P08491 ross river		Q8pim1 xanthomonas				P15261 mus musculu	P23921 homo sapien	'n	Q8cvi4 escherichia		Q8p7al xanthomonas		P90859 caenorhabdi
SUMMARIES	;	ai .	I10R_MOUSE	TF HUMAN	INR1 BOVIN	IIOS MOUSE	I10R HUMAN	I10S HUMAN	TF BOVIN	TF_CAVPO	INR1 HUMAN		INR1_MOUSE	TF_RABIT	TF_RAT	TF MOUSE	INGR_HUMAN	INR2_SHEEP	INR2_BOVIN	INR2 HUMAN	INGS HUMAN	POLS_RRVT	KPSH_HUMAN	GPMA XANAC	POLS_SFV	TSP2_BOVIN	KALM CHICK	INGR_MOUSE	RIR1 HUMAN	VC06_SPVKA	LAMB_ECOL6	HLY4_ECOLI		R1AB_CVH22	YUES_CAEEL
		n	н	Н	~	-	П	Н	7	ч	-	-	н	-	-	7	-	-	н	Н	П	-	1	-	H	Н	Н	Н	7	ч	Н	1	-	н	-
		Match Length	575	. 295	260	349	578	325	292	289	557	260	290	292	295	294	489	536	530	515	337	1254	424	249	1253	1170	9/9	477	792	274	446	478	249	6758	564
	Query	Match	11.5	11.4	11.0	10.9	10.8	10.4	7.6	9.5	9.5	9.5	9.4	9.3	9.0	8.7	8.6	8.0	7.3	7.1	6.4	•	٠	6.3		•	6.1			•	٠.		5.7	5.7	5.7
	c	Score	164.5	163	158	156	155	149.5	138.5	136.5	'n.	136.5	134.5	132.5	128.5	124	122.5	115	104	101.5	92	92	90.5	90	90	88.5	87.5	98	85	84.5	83	82.5	85	82	81
	Result	0	7	8	м	4	'n	9	7	ω	6	10	11	12	13	14	. 15	16	17	18			21	22	23	24	25	26	27	28	29	30		32	33

Q92177 gallus gall P22056 o'nyong-nyo P06739 escherichia P2485 escharomyc O15440 homo sapien P14762 bacillus me Q91159 homo sapien P97711 rattus norv P75780 escherichia P12497 human immun P02241 eurypelma c P13890 ross river	
CAN3 CHICK POLS ONRVG HLYD_ECOLI Y297 HUMAN CPXI BACNE Z214 HUMAN CPXI BACNE Z214 HUMAN CPXI BCOLI POL HVINS HCYD EURCA POLS_RRVN	
апапапапапап	
810 1247 4747 5828 1411 410 660 760 1003 1254	
លលលលលលលលលលល ৮৮৯៤ កំណុលលល់លំបំពុំ 4.4	
81 80.5 80.5 79.5 79.7 78.5 78.5 78.5	
Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ Დ	

ALIGNMENTS

Indels 77; Gaps Query Match 11.5%; Score 164.5; DB 1; Length 575; Best Local Similarity 26.7%; Pred. No. 1.4e-07; Matches 74; Conservative 37; Mismatches 89; Indels 77;

16;

7 FLGFLISFFLTGVA-GTQSTHESLKPQRVQFQSRNFHNILGWQPGRALTGNSSVYFVQXK 65

. ∂

```
REAL TO THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE SEAR THE 
                                                                                                                                                                                                                                                                                                                                                145 TIHPP-----RPIITPAGDEYEQVFKDLRVYKI--SIRKFSEL-KNATKRVKQETFTL 194
                                                            66 IMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETS 125
                                                                                                                                                                                    126 DIQEPYYG---RVRAASAGSYSEWSMT-PRFTPWWETKIDPPVMNITQV----NGSLLV 176
                                                                                                                                                                                                                               177 ILHAPNLPYRYQKEKNVSIEDYYELLY---RVFIINNSLEKEQKVYEGAHRAVEIBALT- 232
                                                                                                                              -----ALKOYGNSTWNDIHICRKAQALSCDLTTFTL 90
8 FLVTISSLSLEFIAYGT----ELPSPSYVWFEARFFQHILHWKP--IPNQSESTY---YE 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=89247359; PubMed=2719931;
Mackman N., Morrissey J.H., Fowler B., Edgington T.S.;
"Complete sequence of the human tissue factor gene, a highly
regulated cellular receptor that initiates the coagulation protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Morrissey J.H., Fakhrai H., Edgington T.S.;
Modecular cloning of the cDNA for tissue factor, the cellular
receptor for the initiation of the coagulation protease cascade.";
Cell 50:129-135(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            φ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bach R., Williams K.R., Guha A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A., AND VARIANTS ALA-36 AND VAL-145.
Rieder M.J., Armel T.Z., Carrington D.P., Ozuna M., Kuldanek S.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Spicer E.K., Horton R., Bloem L., Bach R., Williams K.R., Guha A., Kraus J., Lin T.C., Nemerson Y., Konigsberg W.H.; Bloation of cDNA clones coding for human tissue factor: primary structure of the protein and cDNA."; Proc. Natl. Acad. Sci. U.S.A. 84:5148-5152(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Human tissue factor: cDNA sequence and chromosome localization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=88100453; PubMed=3424286;
Fisher K.L., Gorman C.M., Vehar G.A., O'Brien D.P., Lawn R.M.;
"Cloning and expression of human tissue factor cDNA.";
Thromb. Res. 48:89-99(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-JAN'1990 (Rel. 13, Created)
01-JAN'1990 (Rel. 13, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Tissue factor precursor (TF) (Coagulation factor III)
(Thromboplastin) (CD142 antigen).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scarpati B.M., Wen D., Broze G.J. Jr., Miletich J.P., Flandermeyer R.R., Siegel N.R., Sadler J.E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                              262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ----PHSSYCVVABIYQPMLDRR----SQRSEERCVEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      295 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
MEDLINE=87260946; PubMed=3037536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=87244317; PubMed=3297348;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=88050796; PubMed=2823875;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biochemistry 28:1755-1762(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biochemistry 26:5234-5238(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TF HUMAN
P13726;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ношон
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HUMAN
                                                                                                                 셤
                                                                                                                                                                                                                                  g
                                                        ò
                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A PARTER SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED OF SEED 
                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
```

```
R. AlsuserPostate;
R. AlsuserPostate;
R. AlsuserPostate;
R. Arsuser R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
R. Altausner R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
R. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
R. Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
B. Astchenko. L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
R. Batchenko. L., Marusina K., Farmer A.A., Abramson R.D., Mullaby E.,
R. Staplecon M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
R. Raha S.A., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
B. Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., García A.M., Gay L.J., Hulyk S.W.,
A. Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Rahey J., Helton E., Ketteman M., Maden A., Rodrigues S., Sanchez A.,
Rhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Rhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Rhiting M., Schein J.B., Jones S.J.M., Marra M.A.;
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Thuman and mouse cDNA sequences.",
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=89000604; PubMed=3166978;
Bach R., Konigaberg W.H., Nemerson Y.;
"Human tissue factor contains thioester-linked palmitate and stearate
on the cytoplasmic half-cytine.";
Biochemistry 27:4227-4231(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     K-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS) OF 33-251 IN COMPLEX WITH FVIIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          K-RAY CRYSTALLOGRAPHY (2.1 ANGSTROMS) OF 37-242 IN COMPLEX WITH FVIIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-99126538; PubMed-9925787;
Zhang E., St Charles R., Tulinsky A.;
"Structure of extracellular tissue factor complexed with factor VIIa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inhibited with a BPTI mutant.";

J. Mol. Biol. 289:2089-2104(1999).

-I- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIRCULATING FACTOR VII OR VIIA. THE (FF.VIIA) COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE NORWAL HEMOSTASIS BY INITIATING THE CELL-SUBRACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
-I- SUBCELLULAR LOCATION: Type I membrane protein.

-I- INDUCTION: TF EXPRESSION IS HIGHLY DEPENDENT UPON CELL TYPE. TF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=96190957; PubMed=8609606;
Muller Y.A., Ultsch M.H., de Vos A.M.;
"The crystal structure of the extracellular domain of human tissue
factor refined to 1.7-A resolution.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=96175641; PubMed=8598903;
Banner D.W., D'Arcy A., Chene C., Winkler F.K., Guha A.,
Konigsberg W.H., Nemreson Y., Kirchhofer D.;
"The crystal structure of the complex of blood coagulation factor
VIIa with soluble tissue factor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=94368785; PubMed=8086403;
Muller Y.A., Ultsch M.H., Kelley R.F., de Vos A.M.;
"Structure of the extracellular domain of human tissue factor:
location of the factor VIIa binding site.";
Rajkumar N., Toth E.J., Yi Q., Nickerson D.A.;
Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                               to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X-RAY CRYSTALLOGRAPHY (1.7 ANGSTROMS) OF 33-243.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X-RAY CRYSTALLOGRAPHY (3.0 ANGSTROMS) OF 33-243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFIDE BONDS, AND PALMITOYLATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biochemistry 33:10864-10870(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Biol. 256:144-159(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nature 380:41-46(1996).
                                                                                                                                                                                            Collier R.;
Submitted (JUL-2000)
                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Prostate;
```

Z

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bloinformatics and the EMBL outstation the European Bloinformatics Institute. There are no restrictions on its most by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                     DATABASE: NAME=PROW; NOTE=CD guide CD142 entry; WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd142.htm".
                                                                                                                                                                                                                                                                                                                                                                 Mary, 231-201.

GO; GO:0016621; C:integral to membrane, TAS.

GO; GO:0003801; F:blood coagulation factor activity; TAS.

InterPro: 1PR000282; Cytok receptor 2.

InterPro: 1PR001187; Tissue factor.

Pfam; PF01108; Tissue fac; I.

PROSITE; PS00346; TISSUE FACTOR.

PROSITE; PS00621; TISSUE FACTOR.

PROSITE; PS00621; TISSUE FACTOR; I.

PROSITE; PS00621; Tissue Factor; Palmitate; 3D-structure; Polymorphism.
CAN ALSO BE INDUCED BY THE INFLAMMATORY MEDIATORS INTERLEUKIN AND TWF, AS WELL AS BY ENDOTOXIN, TO APPEAR ON MONOCYTES AND VASCULAR ENDOTHELIAL CELLS AS A COMPONENT OF CELLULAR IMMUNE RESPONSE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WKS MOTIF.
WKS MOTIF.
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXTRACELLULAR (POTENTIAL) POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CYTOPLASMIC (POTENTIAL).
                                            SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FTIG=VAR_014298.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PALMITATE.
                                                                                                                                                                                                                         EMBL; AF540377; AA01236.1; EMBL; AL138758; CAC15961.1; EMBL; BC011029; AA111029.1; PIR, A43645; KFHU3. PDB; 1BOY; 10-JUN-96. PDB; AHTY, 29-JAN-96. PDB; AHTY, 19-AUG-98. PDB; 1TFH; 19-AUG-98. PDB; 1TFH; 19-AUG-98. PDB; 1FRK; 03-DEC-99. PDB; 1FRK; 03-DEC-99. PDB; 1FRK; 03-DEC-99. PDB; 1FRK; 03-DEC-99.
                                                                                                                                                                     EMBL, J02931, AAA61150.1, -..
EMBL, MIG53; AAA61151.1; -..
EMBL, J02846, AAA61152.1, -..
EMBL, M27436, AAA36734.1, -..
EMBL, A19048, CAA01438.1, -..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       48
1192
1169
169
277
36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33
33
33
252
275
275
46
77
77
190
169
169
169
277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           260
442
734
738
739
739
739
739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHAIN
DOMAIN
TRANSMEM
DOMAIN
SITE
SITE
SITE
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LIPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TURN
STRAND
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAND
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                130 PYYGRV-----RAASAGSYSE--WSMTPRFTPWWETKI-DPPVMNITQVNGSLLVILHA 180
                                                                                                                                                                                                                              71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                                                                                                                                                                                                    102 TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPTIQSFEQVGTKVNVTVED 161
                                                                                                                                                                                                                                                                                                                                                                                                                          181 PNLPYRYQKEKNVSIEDYY--ELLYRVFIINNSLEKEQKVYEGAHR-AVEIEALTPHSSY 237
                                                                                                                                          11 LISFFLIGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70
                                                                                                                                                                                    70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=93305725; PubMed=8318540; Lim J.-K., Langer J.A.; Lim J.-K., Langer J.A.; Lim J.-K., Langer J.A.; "Cloning and characterization of a bovine alpha interferon receptor."; Biochim Biophys. Act 1173:314-319(1993).
-: FUNCTION: RECEPTOR FOR INTERFERONS ALEHA AND BETA. BINDING TO TYPE I IFNS TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEINS INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA-
                                                                                                                                                                                21 LLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPV----NQVYTVQ-----I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUBUNITS THEMSELVES.
--- SUBCELLULAR LOCATION: Type I membrane protein.
--- SUBCELLULAR LOCATION: Type I membrane protein.
--- SIMILARITY: Contains 2 fibronectin type III domains.
--- SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-0cT-1993 (Rel. 27, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
Interferon-alpha/beta receptor alpha chain precursor (IFN-alpha-REC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIANE=93076908; Pubmed=1446745;
Mouchel-Vielh E., Lutfalla G., Mogensen K.E., Uze G.;
"Specific antiviral activities of the human alpha interferons are
determined at the level of receptor (IFNAR) structure.";
                                                         Query Match 11.4%; Score 163; DB 1; Length 295; Best Local Similarity 23.4%; Pred. No. 8.2e-08; Matches 62; Conservative 45; Mismatches 100; Indels 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         560 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       238 C--VVAEIYQPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             218 CFSVQAVIPSRTVNRKSTDSPVECM 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEBS Lett. 313:255-259(1992)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; X68443; CAA48484.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bovidae, Bovinae, Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INR1 BOVIN
Q04790;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Lung
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INR1_BOVIN
44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                    ծ
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
```

```
/ Mar.
Local Sim.
72;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            013651,
15-JUL-1998
15-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 5
110R HUMAN
1D TIOR HUMAN
AC Q13651,
DT 15-JUL-1998
DT 15-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOMAIN
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82 CWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAG 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ------KWKQIPNCENVTSTHCVFPREVSS-RGIYYVRVRASNGN 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             142 SYSEWSMTPRFTPWWETKIDPPVMNITQV-NGSLLVILHAPNLPYRYQKEKNVSIEDYYE 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                314 GTSFWSEEKEFNTEMKTIIFPPVISVKSVTDDSLHVSVGAS-----EESENMSVNQLYP 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 368 LIYEVIFWENTSNAERKVLEKRINFI-FPDLKPLTVYCVKA---RALIENDRRNKGS 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LLYRVFIINNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAEIYOPML--DRRSORS 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22 TOSTHESLKPORVOFOSRNFHNILOWOPGRALIGNSSVYFVQYKIMFSCSMKSSHOKPSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            42; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NCBI_TaxID=10090;
                                                                                                                                          INTERFERON-ALPHA/BETA RECEPTOR ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Interleukin-10 receptor beta chain precursor (IL-10R-B) (IL-10R2)
(Cytokine receptor class-II CRF2-4).
                                                                                                                                                                                                                                                                                       (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL). (POTENTIAL). (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
MEDLINE=97199375; PubMed=9047351;
Gibbs V.C., Pennica D.;
"CRP2-4: isolation of cDNA clones encoding the human and mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                          11.0%; Score 158; DB 1; Length 560; 24.1%; Pred. No. 5.3e-07; ive 38; Mismatches 100; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           66D76B72861E1D11 CRC64;
                                                                                                                                                                           EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                        CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                        (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                         (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                                         (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                          (GLCNAC. . .
                                                                                                                                                                                                                                                        N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
                                                                                                                                                                                                                                                                                          (GLCNAC.
                                                                                                        Receptor; Transmembrane; Glycoprotein; Signal. SIGNAL 1 24 BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                        -> V (IN REF.
                                                                                                                                                                                                                        BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                349 AA
                                                                                                                                                                                                                                          SIMILARITY
                                                                                                                                                                                                                                                                                       N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
F -> V (IR
        PIR; S27387; S27387.
InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR0013961; FN III.
InterPro; IPR001187; Tissue factor.
Pfam; PF01108; Tissue fac; I.
SMART; SM00060; FN3; Z.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [2]
CHARACTERIZATION,
MEDLINE=98130620; PubMed=9463407;
                                                                                                                                                                                                                                                                                                                                                                                                                             63818 MW;
L06320; AAA02571.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 24.1 S7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                        437
458
560
84
220
                                                                                                                                                                                                                                                        47
55
85
109
172
254
                                                                                                                                                                                                                                                                                                                                                          313
377
434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gene 186:97-101(1997)
                                                                                                                                                                                                                                                                                                                                                                                                          422 4
560 AA;
                                                                                                                                                                        25
438
459
76
199
                                                                                                                                                                                                                                                                                                                                         254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            110S MOUSE
Q61190;
                                                                                                                                                                        DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              201
                                                                                                                                                                                                                                                                                                                                                                                                        CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             276
                                                                                                                                                                                                                         DISULFID
                                                                                                                                                                                                                                          SULFID
                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1105_MOUSE

1105_MOUSE

1105_MOUSE

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_MOST 16-OCT

110_
                                                                                                                                          CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce) or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 178 LHAPNLPYRYQKE-----KNVSIEDYYELLYRY-FIINNSLEKEQKYYEGAHRAVEIEA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  131 FSAPQI----ENEPETWTLKNI----YDSWAYRVOYWKNGTNEKFOVV--SPYDSEVLRN 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84
Spencer S.D., Di Marco F., Hooley J., Pitts-Meek S., Bauer M., Fryan A.M., Sordat B., Gibbs V.C., Aguet M.;
"The orphan receptor CRF2-4 is an essential subunit of the interleukin 10 receptor.";
"The orphan receptor CRF2-14 is an essential subunit of the interleukin J. Exp. Med. 197:571-58(1998).

"THE TRIP INTERCEPTOR FOR IL-10 AND IL-22. SERVES AS AN ACCESSORY CHAIN ESSENTIAL FOR THE ACTIVE IL-10 RECEPTOR COMPLEX AND TO INTIARE IL-10-INDUCED SIGNAL TRANSDUCTION EVERTS.

"SUBLIARITY: Contains 2 fibronectin type III domains.
"SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CVAGWLGGFLLVPALGMIP-----PPEKVRMNSVNFKNILOWEVPAFPKTNLT----FT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62 VQYKIMFS----CSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           118 CDLTSETSDIQEPYYGRVRAASAGSYSEWSWTPRFTPWWETKIDPPVMNITQVNGSLLVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -------YTVRVRAELADEHSEW-VNVTPCPVEDTIIGPPEMQIESLAESLHLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CPLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQ----PGRALTGNSSVYF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      54 AQYESYRSFQDHCKRTASTQ-----CDF---SHLSKYGD------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         78; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INTERLEUKIN-10 RECEPTOR BETA CHAIN.
EXTRACELLULAR (POTENTIAL).
POTENTIAL.
CYTOPLASMIC (POTENTIAL).
FIBRONECTIN TYPE-III.
BY SIMILARITY.
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (POTENTIAL)...) (POTENTIAL)...) (POTENTIAL)...) (POTENTIAL)...) (POTENTIAL)...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 26.8%; Pred. No. 4.5e-07; 2. Conservative 30; Mismatches 89; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL, U53696, AAC53062.1; -. MGD; MGI:109380; Illorb. GO; GO:0004920; F:interleukin-10 receptor activity; IMP. GO; GO:0004515; F:interleukin-inding activity; IPI. InterPro; IPR000282; Cytok receptor_2. InterPro; IPR003961; FN_III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58BA4F6B86330A39 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM00660; FNJ; 2.—
Receptor; Transmembrane; Glycoprotein; Signal.
SIGNAL.
1 POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ŕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (Rel. 36, Created)
(Rel. 36, Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              231 LIPHSSYCVVAEIYOPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LEPWITYCIQVOGFLLDQNRTGEWSEPIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39774 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   349 AA;
```

Ŋ

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
  : | : | : | : | : | 138 FILGKIQLP-----RPKMAPANDTYESIFSHFREYEIAIRKVPGNFTFTHKKVKHENF 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=93300510; PubMed=8314576;
Lutfalla G., Gardiner K., Uze G.;
Fa new member of the cytokine receptor gene family maps on chromosome 21 at less than 35 kb from IFNAR.";
Genomics 16:366-373 (1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=20469498; PubMed=10875937; Xie M.-H., Aggarwal S., Ho W.-H., Foster J., Zhang Z., Stinson J., Xie M.-H., Aggarwal S., Ho W.-H., Foster J., Zhang Z., Stinson J., Wood Will, Goddard A.D., Gurney A.L.; Goddard A.D., Gurney A.L.; Jancerleukin (IL)-22, a novel human cytokine that signals through the interferon receptor-related proteins CRF2-4 and IL-22R."; J. Biol. Chem. 275:31335-31339 (2000)

-I. FUNCTION: RECEPTOR FOR IL-10 AND IL-22. SERVES AS AN ACCESSORY CHAIN ESSENTIAL FOR THE ACTIVE IL-10 RECEPTOR COMPLEX AND TO INTIATE IL-10-INDUCED SIGNAL TRANSDUCTION EVENTS.

-I. SUBCELLULAR LOCATION: Type I membrane protein.

-I. SIMILARITY: Contains 2 fibronectin type III domains.

-I. SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pestka S.; "Identification and functional characterization of a second chain of
                                                                                                                                                                                                                                                                                                                                       01-FEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
11-FEB-1995 (Rel. 41, Last annotation update)
11-EFFB-2603 (Rel. 41, Last annotation update)
11-EFFB-2603 (Rel. 41, Last annotation update)
11-10Relexine receptor beta chain precursor (IL-10R-B) (IL-10R2)
11-10RB OR CRFB4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
MEDLINE=96054036; PubMed=7563119;
Lutfalla G., McInnis M.G., Antonarakis S.E., Uze G.;
"Structure of the human CRFB4 gene: comparison with its IFNAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kotenko S.V., Krause C.D., Izotova L.S., Pollack B.P., Wu W.,
                                                                                   232 TPHSS----YCVVAEIYQPMLDRRSQR---SEERCVEI 262
                                                                                                                    191 SLLTSGEVGEFCVOV---KPSVASRSNKGMMSKEECISL 226
                                                                                                                                                                                                                                                                                     325 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the interleukin-10 receptor complex.";
EMBO J. 16:5894-5903(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=97459974; PubMed=9312047;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J. Mol. Evol. 41:338-344(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; Z17227; CAA78933.1; -. EMBL; U08988; AAA86872.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR; A47003; A47003.
HSSP; P13726; 1TFH.
Genew; HGNC:5965; IL10RB.
                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. TISSUE=Fetal brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CHARACTERIZATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CHARACTERIZATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia, Euther
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                     HUMAN
                                                                                                                                                                                                                                                                                                          008334;
                                                                                                                                                                                                                            RESULT 6
I10S_HUMAN
                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                DAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTAR BERTA
                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TSETSDI--QEPYYGRVRAASAGSYSEWSMT-PRFTPWWETKIDPPVMNITQV----NG 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             84 TAVTLDLYHSNGYRARVRAVDGSRHSNWTVTNTRFS-----VDEVTLTVGSVNLEIHNG 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SLLVILHAPNLPYRYQKEKNVSIBDYYELLYRVF-IINNSLEKEQKVYEGAHRAVEIEAL 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             48 ------IPNQSESTCYE-----VALLRYGIESWNSISNC--SQTLSYDL 83
                                                                                                                                                                                                                                              61 FVQYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWNXEDCWGTQELSCDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
15-SEP-2003 (Rel. 42, Last annotation update)
Interleukin-10 receptor alpha chain precursor (IL-10R-A) (IL-10R1)
                                               Homo sapiens (Human).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalla, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERLEUKIN-10 RECEPTOR ALPHA CHAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO: GO:0005686; C:plasma membrane; TAS.
GO: GO:0004920; F:interleukin-10 receptor activity; TAS.
GO: GO:0004972; F:receptor activity; TAS.
InterPro; IPR000282; Cytok receptor 2.
Seceptor; Transmembrane; GlycoproteIn; Signal; 3D-structure.
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 155; DB 1; Length 578; Pred. No. 1e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               42; Mismatches 103; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EE1B29064338157C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL.

N-LINKED (GLCNAC. . .) (
N-LINKED (GLCNAC. . .) (
N-LINKED (GLCNAC. . .) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; U00672; AAA17896.1; -. PIR; I56215; I56215. PDB; IJVY; 19-SEP-01. PDB; ILQS; I7-JUL-02. Genew; HGNC:5964; IL10RA. MIM; 146933; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62903 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10.8%;
22.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               64; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        578
2235
223
223
223
74
74
110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              578 AA;
                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
```

名品谷品谷品

ò

```
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIGNAL
    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89 NFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSETSDIQEPYYG----RVRAASAGSYS 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          145 EWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAPNLPYRYQ--KEKNVSIEDYYELL 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 DW-VNITFCPVDDTIIGPPGMQVEVLADSLHMRFLAPKIENEYETWTMKOV----YNSWT 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24 PENVRMNSVNFKNILQWESPAFAKGNLTFTAQYLSYRIF------62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31 PORVQFQSRNFHNILQWQPGRALTGN--SSVYFVQYKIMFSCSMKSSHQKPSGCWQHISC 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            YRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bos taurus (Bovine).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Cetartiodactyla, Ruminantia, Pecora, Bovoidea;
Bovidae, Bovinae, Bos.
                                                                                                                                                                                                                                                                                                           BETA CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..) (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL) (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.4%; Score 149.5; DB 1; Length 325; 24.1%; Pred. No. 1.7e-06;
    MIM, 123889; -.

GO; GO:0016021; C:integral to membrane; TAS.

GO; GO:0005886; C:plasma membrane; TAG.

GO; GO:0004820; F:interleukin-10 receptor activity; TAS.

GO; GO:0004872; F:receptor activity; TAS.

GO; GO:0006955; P:immune response; TAS.

GO; GO:0007165; P:inflammatory response; TAS.

GO; GO:0007165; P:inflammatory response; TAS.

InterPro; IPR003961; FN_III.

InterPro; IPR003961; FN_III.

InterPro; IPR003961; FN_III.

SPRMRT; SM00060; FN3; Z.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE-Adrenal gland;
MEDLINE-92109720; PubMed=1764065;
Takayenoki Y., Muta T., Miyata T., Iwanaga S.;
"CDNA and amino acid sequences of bovine tissue factor.";
Blochem. Blophys. Res. Commun. 181:1145-1150(1991)
                                                                                                                                                                                                                                                                                                                                                                                                                           BY SIMILARITY.

N-LINKED (GLCNAC. . .) (POTE
N-LINKED (GLCNAC. . .) (POTE
N-LINKED (GLCNAC. . .) (POTE
N-LINKED (GLCNAC. . .) (POTE
A -> D (IN REF. 2).
FLGHP -> VGRME (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89; Indels
                                                                                                                                                                                                                                                                                      POTENTIAL.
INTERLEUKIN-10 RECEPTOR B
EXTRACELIULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66706C79F8514B23 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence update)
16-CT-201 (Rel. 40, Last annotation update)
Tissue factor precursor (TF) (Coagulation factor III).
                                                                                                                                                                                                                                                                                                                                                                   CYTOPLASMIC (POTENTIAL). FIBRONECTIN TYPE-III.
                                                                                                                                                                                                                                                                 Receptor; Transmembrane; Glycoprotein; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MISSING (IN REF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     32; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           292 AA
                                                                                                                                                                                                                                                                                                                                                                                                              BY SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                  POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37011 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   57; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  325 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
CONFLICT
CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TP_BOVIN
P30931;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                              DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                               DISULPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TF_BOVIN

AC PTG_B

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

DT 01-J

D
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modifised and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         102 TYLARVLSYPADTSSSTVEPPFTNSPEFTPYLETNLGQPT1QSFEQVGTKLNVTVQDART 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    184 PYRYOKEKNVSIEDYY--ELLYRVFIINNSLEKEOKVYEGAHR-AVEIEALTPHSSYC-- 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   130 PYYGRVRAASAGSYSE----WSMTPRFTPWWETKI-DPPVMNITQVNGSLLVILHAPNL 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 LISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70
                                                               Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 LFGLVLIQGAGVAGTIDVVVAXNITWKSINFKTILEWEPKPI----NHVYTVQIS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HSSP; F24055; 1A21.
InterPro; IPR000182; Cytok receptor_2.
InterPro; IPR001187; Tissue_factor.
Pfam; PF01108; Tissue_fac; I.
PRINTS; PR00346; TISSUEFACTOR.
PROSTITE; PS00621; TISSUE FACTOR; 1.
Glycoprofein; Blood coagulation; Transmembrane; Signal; Lipoprotein; Palmitate.
FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIRCULATING FACTOR VIO W VIA. THE [TF:VIIA] COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND SPROPAGATION OF THE COAGULATION PROTESASE CASCADE. SUBCELLULAR LOCATION: THE CHARTON PANILY. SIMILARITY: BELONGS TO THE TISSUE FACTOR PAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              55; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-LINKED (GLCNAC. . ) (POTENTIAL)
N-LINKED (GLCNAC. . ) (POTENTIAL)
N-LINKED (GLCNAC. . ) (POTENTIAL)
BY SIMILARITY.
BY SIMILARITY.
PALMITATE (BY SIMILARITY).
MW; 5E471D92BFBCE163 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 22.6%; Pred. No. 1.6e-05; les 59; Conservative 43; Mismatches 104; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE FACTOR.
EXTRACELLULAR (POTENTIAL)
POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Tissue factor precursor (TF) (Coagulation factor III).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CYTOPLASMIC (POTENTIAL). WKS MOTIF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           289 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9.7%; Score 138.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              239 VVAEIYQPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | | | ::::| | :|
VQAVILSRRVNQKSPESPIKC 238
                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; S74147; AAB20755.1; -. PIR; JO1319; KFB03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 292 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TF CAVPO
Q9JLU8;
```

```
HUMAN
                          RESULT 9
INR1_HUMAN
                                                INRI
                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lab-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKBDCWGTQELSCDLTSETS-DIQE 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              130 PYYGRVRAA---SAGSYSE--WSMTPRFTPWWETKIDPP------VMNIT----- 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11 LISPFLIGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shi R.J., Li W.Z., Marder V.J., Sporn L.A.;

"Cloning of guinea pig tissue factor cDNA: comparison of primary
"Cloning of guinea pig tissue factor cDNA: comparison of primary
structure among six mammalian species.";

Thromb. Haemost. 83:455-461(2000).

-!- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH
CIRCULATING PACTOR VII OR VIIA. THE [TP:VIIA] COMPLEX ACTIVATES
FATORS IX OR X BY SPECIFIC LIMITED PROTONYSIS. TF PLAYS A ROLE IN
NORMAL HEMOSTASIS BY INITIATING THE CELL-SUFFACE ASSEMBLY AND
PROPAGATION OF THE COAGULATION PROTEASE CASCADE.

-!- SUBCELLULAR LOCATION: Type I membrane protein.

-!- SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 LIGWVLVQVAGAEGI--PVKPYNLTWKSTNFKTILEWEPKPI----NNVYTVQ----IST
                                                                                                                                                                                                                                                                                                                               HSSP; P13726; 1TFH.
HSSP; P13726; 1TFH.
InterPro; PR000283; Cytok receptor_2.
InterPro; IRR001283; Cytok receptor_2.
Pfam; PF01108; Tissue_fac; 1.
PRINTS; PR00346; TISSUE_RACTOR.
PROSITE; PS00621; TISSUE_RACTOR.
PROSITE; PS00621; TISSUE_RACTOR; FALSE_NEG.
Glycoprotein; Blood coagulation; Transmembrane; Signal; Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                        Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WKS MOTIF.
WKS MOTIF.
WKS MOTIF.
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                67;
P3.
Cavia porcellus (Guinea pig).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostc
Mammalia; Butheria; Rodentia; Hystricognathi; Caviidae; Cavia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 9.5%; Score 136.5; DB 1; Length 289; Best Local Similarity 24.9%; Pred. No. 2.4e-05; Matches 50; Conservative 32; Mismatches 52; Indels 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               52; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY SIMILARITY.
PALMITATE (BY SIMILARITY).
7AB97F8F58199FB1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                     SIMILARITY
                                                                          TISSUE=Lung;
MEDLINE=20206020; PubMed=10744153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -- OVNGSLLVI -- LHAPNLPY 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                160 LARSNGTFLSLRDIFGKNLOY 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32456 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                     32
289
289
289
289
77
77
71
1111
151
164
236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        151
164
79
213
271
289 AA;
                                                                 SEQUENCE FROM N.A.
                                           NCBI_TaxID=10141;
                                                                                                                                                                                                                                                                                                                                                                                                                                     269
269
44
                                                                                                                                                                                                                                                                                                                                                                                                                                              CHAIN
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DISULFID
DISULFID
LIPID
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           169
                                                                                                                                                                                                                                                                                                                                                                                                                                     SIGNAL
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    · 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MIM; 107450; -. Gintegral to plasma membrane; TAS. GO; GO:0004905; F:integral to plasma membrane; TAS. GO; GO:0004905; F:interferon-alpha/beta receptor activity; TAS. GO; GO:0007166; P:cell surface receptor linked signal transdu. . ; TAS. GO; GO:000915; P:response to viruses; TAS. GO; GO:0009615; P:response to viruses; TAS. InterPro; IPR000282; Cytok receptor_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=95059042; PubMed=7526154; Colamonici O., Yan H., Domanski P., Handa R., Smalley D., Mullersman J., Wite M., Krishnan K., Krolewski J.; Mullersman J., Wite M., Krishnan K., Krolewski J.; Direct binding to and tyrosine phosphorylation of the alpha subunit of the type I interferon receptor by p135tyk2 tyrosine kinase."; Mol. Cell. Biol. 14:8133-8142(1994).

-- FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BINDING TO TYPE I IFOR TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEINS INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA-SUBUNITS THEMSELVES.
                                                               01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Interferon-alpha/beta receptor alpha chain precursor (IFN-alpha-REC).
IFNAR1 OR IFNAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -!- SUBCELLULAR LOCATION: Type I membrane protein.
-!- TISSUB SPECIFICITY: IFN RECEPTORS ARE PRESENT IN ALL TISSUES AND BUYEN ON THE SURFACE OF MOST IFN-RESISTANT CELLS.
-!- FURN ON THE SURFACE OF MOST IFN-RESIDES BY TYKE TYROSINE KINASE.
-!- SIMILARITY: CONCAINE 2 fibronectin type III domains.
-!- SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE-92129376; PubMed-1370833;
Luffalla G., Gardiner K., Proudhon D., Vielh B., Uze G.;
Luffa etructure of the human interferon alpha/beta receptor gene.";
J. Biol. Chem. 267:2802-2809(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
MEDLINE=90124632; PubMed=2153461;
Uze G., Lutfalla G., Gresser I.;
"Genetic transfer of a functional human interferon alpha receptor into mouse cells: cloning and expression of its CDNA.";
cell 60:225-234(1990).
                                                                                                                                                                                                                                                                                         Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi;
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INTERFERON-ALPHA/BETA RECEPTOR ALPHA CHAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glycoprotein; Signal; Polymorphism;
557 AA
PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; J03171; AAA52730.1; -.
EMBL; X60459; CAA42992.1; -.
PIR; A32694; A32694.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Genew; HGNC:5432; IFNAR1.
STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHOSPHORYLATION BY TYK2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27
557
                                                                                                                                                                                                                                                                                Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Phosphorylation.
```

```
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                    | | | | : : | : : | : : | | : : | | PVHCI ----YTYANMITEQV 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTS 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVILHAPN 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      183 LPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAE
                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q28589; Q95206;
01-NOV-1997 (Rel. 35, Created)
30-MAY-2000 (Rel. 35, Last sequence update)
10-MAY-2000 (Rel. 39, Last annotation update)
Interferon-alpha/beta receptor alpha chain precursor (IFN-alpha-REC)
IRNAR1 OR IFNAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
Bovidae; Caprinae; Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Endometrium,
BEDLINES-97135690; PubMed=8981227;
Kaluz S., Fisher P.A., Kaluzova M., Sheldrick B.L., Flint A.P.F.;
"Structure of an ovine interferon receptor and its expression in
                                                                                      (PROBABLE)
                                                                                                                                                                                                                          (POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
                                                                                                                                                                (POTENTIAL)
(POTENTIAL)
(POTENTIAL)
(POTENTIAL)
                                                                                                     (POTENTIAL)
                                                                                                                     (POTENTIAL)
                                                                                                                                   (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 557;
                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                        PHOSPHORYLATION (BY TYK2)
PHOSPHORYLATION (BY TYK2)
N-LINKED (GLCNAC. . .) (PO
                                                                                                                                                                                                                                                                                                       FTIG=VAR 002717.
-> A (IN REF. 2).
0F6744C8A1ADBE73 CRC64;
EXTRACELLULAR (POTENTIAL)
              POTENTIAL.
CYTOPLASMIC (POTENTIAL)
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                (GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
                                                                                                                                                                                                                           (GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
(GLCNAC. . .)
                                                                                                                                     GLCNAC. . .
                                                                                                                                                                                                                                                                                                                                                                                                  39; Mismatches 115;
                                                                                                                                                                                                                                                                                                                                                                    9.5%; Score 136.5; DB 1
20.8%; Pred. No. 5.3e-05;
                                                                                                                      GLCNAC.
                                                                                                                                                   (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           560 AA
                                                                                                                                                                                                                                                                                                        /FTId=VAR
                                                                                                                   N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
LINKED
N-LINKED
N-LINKED
LINKED
N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mol. Endocrinol. 17:207-215(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    . | : | | : | 408 AHTMDEKLNKSSVFSDAVC 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   243 IY--QPMLDRRSQRSEERC 259
                                                                                                                                                                                                                                                                                                                                        3
                                                                                                                                                                                                                                                                                                                                       63525
                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 20.89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
557 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ovis aries (Sheep)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                              110
172
254
313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          endometrium."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SHEEP
                            DOMAIN
DISULFID
DISULFID
                                                                                                                                                              CARBOHYD
DOMAIN
TRANSMEM
                                                                      MOD_RES
MOD_RES
CARBOHYD
                                                                                                                     CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                               217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    354
                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                       CONFLICT
                                                                                                                                                                                                                                                                                                                                       SEQUENCE
                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                           VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 10
INR1 SHEEP
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPRESENTATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as a long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  138 ASAGSYSEWSMTPRFTPWWETKIDPPVMNITOV-NGSLLVILHAPNLPYRYQKEKNVSIE 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SNGNGTSFWSEEKEFNTEVKPIIPPPVISMKSITDDSLHVSVSAS-----EESENMSVN 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOSTHESLKPORVOFOSRNFHNILOWOPGRALTGNSSVYFVOYKIMFSCSMKSSHOKPSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CWQHISCNFPGCRTLAKYGORQWKNKEDCWGTQELSC----DLTSETSDIQEPYYGRVRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ------MGIYYVRVRA
                                                                                                                                                                   pregnancy.";
Endocrinology 138:4757-4767(1997).
Endocrinology 138:4757-4767(1997).
-!- FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BINDING TO TYF
-! FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BY INCLUDING JAKS, TYK2, STAT PROTEINS AND IFN-R ALPHA-AND BETA.
SUBUNITS THEMSELVES.
                                                                                                                                                                                                                                                                                                                                               -!- SUBCELLULAR LOCATION: Type I membrane protein.
-!- TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES EXAMINED EXCEPT
- CONCEPTUS AT DAY 15 OF PREGNANCY.
-!- SIMILARITY: Contains 2 fibronectin type III domains.
-!- SIMILARITY: BELONGS TO THE CLASS II CYTOXINE PAMILY OF RECEPTORS.
TISSUE=Endometrium;
MEDLINE-98006426; PubMed=9348203;
MEDLINE-98006426; PubMed=9348203;
Man C.-S., Mathialagan N., Klemann S.W., Roberts R.M.;
"Molecular cloning of ovine and bovine type I interferon receptor subunits from uteri, and endometrial expression of messenger subunits from uteri, and endometrial expression of messenger ribonucleic acid for ovine receptors during the estrous cycle and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INTERFERON-ALPHA/BETA RECEPTOR ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 560;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POTENTIAL.

CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
N-LINKED (GLCNAC...) (PR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9.5%; Score 136.5; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 23.3%; Pred. No. 5.3e-05; les 57; Conservative 32; Mismatches 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E7198A1905D4805C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SWART; SM0066; FN3; 2. Receptor; Transmembrane; Glycoprotein; Signal. SIGNAL BY SIMILABITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -> G (IN REF. 2)
-> D (IN REF. 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR003961; FN_III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63918 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; X95939; CAA65183.1; -. EMBL; U65978; AAB84231.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           434
352
522
560 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25
4438
4539
76
199
477
55
85
108
1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONFLICT
```

```
TF RABIT
P24055;
               26
                                                                                             79
                                                                                                                                                                                                          192
                                                                                                                                                                                231
                                                                                                                                                                                                                                                                 RABIT
                                      g
                                                                   ò
                                                                                         g
                                                                                                                        ò
                                                                                                                                                  셤
                                                                                                                                                                               ò
                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Suropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
197 DYYELLYRVFIINNSLEKEOKVYEGAHRAVEIEALTPHSSYCVVAE--IYOPMLDRRSQR 254
                        364 QLÝPLVYEVIFWENTSNAERKVLE-KRIDFIFPNÍKPLTVÝCVKARALIENDRWNKGSSY 422
                                                                                                                                                                                                                                                                                                                                            Uze G., Lutfalla G., Bandu M.T., Proudhon D., Mogensen K.E.;
"Behavior of a cloned murine interferon alpha/beta receptor expressed
in homospecific or heterospecific background.";
Proc. Natl. Acad. Sci. U.S.A. 99:4774-4778 (1992)
--- FUNCTION: RECEPTOR FOR INTERFERONS ALPHA AND BETA. BINDING TO TYPE
I IFNS TRIGGERS TYROSINE PHOSPHORYLATION OF A NUMBER OF PROTEINS
INCLIDING JAKS, TYTY, STAT PROTEINS AND IFN-R ALPHA-AND BETA-
                                                                                                                                                                        01-FEB-1994 (Rel. 28, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Interferon-alpha/beta receptor alpha chain precursor (IFN-alpha-REC)
IFNARI OR IFNAR OR IFAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBCELLULAR LOCATION: Type I membrane protein.
SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.
                                                                                                                                                                                                                                                             Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INTERFERON-ALPHA/BETA RECEPTOR ALPHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7EC6DFF370185D3A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POTENTIAL. CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Receptor; Transmembrane; Glycoprotein; Signal.
SIGNAL 1 26 POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GLCNAC.
                                                                                                                                                  590 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BY SIMILARITY
BY SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR003961; FN_III.
SMART; SM00060; FN3; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHAIN.
                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE=92262522; Pubmed=1533935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       65776 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; M89641; AAA37890.1; -.
                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIR; A45283; A45283.
MGD; MGI:107658; Ifnar1.
                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBUNITS THEMSELVES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          43
109
181
214
                                                                                                                                                                                                                                                 Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART; SM00060; FN3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       590 AA;
                                                   255 SEERC 259
                                                                             423 SDTVC 427
                                                                                                                                                                                                                                                                                          NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27
430
450
78
                                                                                                                                              INR1 MOUSE
P33896;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DISULPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
                       셤
                                                   ઠે
                                                                            셤
```

7;

Gaps

27;

9.4%; Score 134.5; DB 1; Length 590; 21.4%; Pred. No. 8.7e-05; ative 39; Mismatches 99; Indels 27

45; Conservative

Matches

Local Similarity

Query Match

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch).
NSSVYFV--QYKIMFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKY---GQRQWKNKEDC 110
                                                                                       111 WGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQV 170
                                                                                                                                                                                                                               139 DKAILVHISPPG-----QDGNMWALEKPSFSYTIRIWQKS-SSDKKTINSTYYVEKIPE 191
                                           78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Molecular cloning, characterization and expression of cDNA for rabbit brain tissue factor.",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -i- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX MITH CIRCULATING FACTOR VI OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES PACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TP PLAYS A ROLE IN NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
-i- SUBMELLULAR LOCATION: Type I membrane protein.
-i- TISSUB SPECIFICITY: BRAIN, HEART.
-i- SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                             34 NIDVYIIDDNYTLKW-----SHGESMG-----SVTPS-----AEYRTKDEAKWLKVPEC
                                                                                                                                OHTITIKCEFSLLDINVYIKTOFRVRAEEGNSTSSWNEVDPFIPFYTAHMSPPEVRLEAE
                                                                                                                                                                                 171 NGSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=91200676; PubMed=1840552; Andrews B.S., Rehemtulla A., Fowler B.J., Edgington T.S., Mackman N.; "Conservation of tissue factor primary sequence among three mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X-RAY CRYSTALLOGRAPHY (2.35 ANGSTROMS) OF 36-240. MEDIATE-99265351, PubMed=9605315, MAILENTE-99265351, PubMed=9605315, MAILER Y.A., Kelley R.F., de Vos A.M.; "Hinge bending within the cytokine receptor superfamily revealed by the 2.4 A crystal structure of the extracellular domain of rabbit trissue factor." Protein Sci. 7:1106-1115(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oryctolagus cuniculus (Rabbit).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Lagomorpha, Leporidae, Oryctolagus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01.MAR-1992 (Rel. 21, Created)
01-MAR-1992 (Rel. 21, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Tissue factor precursor (TF) (Coagulation factor III).
                                                                                                                                                                                                                                                                                                                                                                                                                                             Ź
                                                                                                                                                                                                                                                                             LIPHSSYCVVAEIYOPMLDRRSQRSEERCV 260
                                                                                                                                                                                                                                                                                                     | | ::||: ; | | : .| :|:
LLPETTYCLEVKAIHPSLKKHSNYSTVQCI 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 33-292 FROM N.A.
STRAIN=New Zealand white; TISSUE=Brain;
MEDLINE=92081032; PubMed=1746002;
Pawashe A., Ezekowitz M., Lin T.C., Hort
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Thromb. Haemost. 66:315-320(1991)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; M55390; AAA63469.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene 98:265-269(1991)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Heart
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Rioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
    160 ARTLVRRNGTFLSLRAVFGKDLN-----YTLYYWRASSTGKKTATTTVTNBFLIDVDKGE 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Glycoprotein; Blood coagulation; Transmembrane; Signal; Lipoprotein; Palmitate. 1 28 BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 128.5; DB 1; Length 295; Pred. No. 0.00013;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE PACTOR.

EXTRACELLULAR (POTENTIAL).

CYTOPLASNIC (POTENTIAL).

WES MOTIF.

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...) (POT

N'LINKED (GLCNAC...)
                                                                                                                                                                                                                                    01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Tissue factor precursor (TF) (Coagulation factor III).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LMITATE (BY SIMILARITY)
EE4C15B4E3628D48 CRC64;
                                                               HRAVEIEALTPHSSYCVVAEIYOPMLDRRSORSEERCVE
                                                                                          Ź
                                                                                                                                                                                                     295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; U07619; AAA16966.1; -.
HSSP; P13726; 1FAK.
InterPro; IPR000282; Cytok receptor_2.
InterPro; IPR001187; Tissue factor.
Pfam; PF01108; Tissue fac, 1.
PRINTS; PR00346; TISSUEFACTOR.
PROSITE; PS00621; TISSUE_FACTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33443 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9.0%;
                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE PROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIPID
SEQUENCE
                                                                 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                     TF RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHAIN
                                                                                                                                                                RESULT 13
                                                                                                                                                                                     F RAT
                                                                                                                                                                                                                          ð
                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              71 SMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TSDIQE 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100 TYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDINLGQPTIQSFEQVGTKLNVTVQD 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            130 PYYGRV-----RAASAGSYSE---WSMTPRFTPWWETKIDPPV-------MNITQVN 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GSLLVILHAPNLPYR--YQKEKNVSIEDYYELLY-----RVFIINNSLEKEQKVYEGA 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 LISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIMFSC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 LIGWLLAQVARAADT--TGRAYNLTWKSTNFKTILEWEP-----KSIDHV-YTVQIST 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
EMBL; X53521; CAA37597.1; -.
PIR; JU0441; KFRB3.
PDB; 1A21; 27-MAY-98.
InterPro; 1PR0001287; Cytok_receptor_2.
InterPro; 1PR001187; Tissue_factor.
Pfam; PF01108; Tissue_fac; 1.
PRINTS; PR00346; TISSUE_ACTOR.
PROSTE; PS00621; TISSUE_FACTOR.
Glycoprotein; Blood coagulation; Transmembrane; Signal; Lipoprotein; Palmitate; 3D-structure.
                                                                                                                                                                                                                                                                                                                                           (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39; Mismatches 89; Indels
                                                                                                                                                                                                                        TISSUE FACTOR.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              32738 MW; 4860A1CADBACCF71 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PALMITATE (BY SIMILARITY)
                                                                                                                                                                                                                                                             POTENTIAL.
CYTOPLASMIC (POTENTIAL)
WKS MOTIF.
WKS MOTIF.
                                                                                                                                                                                                                                                                                                                                                                                                         (GLCNAC. . .)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9.3%; Score 132.5; DB 1
22.2%; Pred. No. 5.6e-05;
                                                                                                                                                                                                                                                                                                                                             N-LINKED (GLCNAC.
N-LINKED (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                      (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                              (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                  N-LINKED (N-LINKED (N-LINKED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   71 RLEN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            292 AA;
                                                                                                                                                                                                                                            DOMAIN
TRANSMEM
DOMAIN
SITE
SITE
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
CARBOHYD
DISULFID
DISULFID
LIPID
STRAND
TURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAND
STRAND
STRAND
HELIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAND
STRAND
TURN
STRAND
STRAND
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAND
STRAND
STRAND
TURN
                                                                                                                                                                                                       SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAND
STRAND
STRAND
HELIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAND
                                                                                                                                                                                                                          CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HELIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IGRN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
```

8 6 8 6 8

ઠે

6

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bloinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                125
                                                                                                                                                                                                                                                                                          DVNWTYEARVLSVPWRNSTHGKETLFGTHGEEPPFTNARKFLPYRDTKIGQPVIQKYEQG 152
                                                                                                                                                                                                                                                                 172 GSLLVILHAPNLPYRYQKEKNVSIEDYYELLYR--VFIINNSLEKEQKYYEGAHR---AV 226
                                                                                                                                                                                         126 DIQEPYYGRV------RAASAGSYSE---WSMTPRFTPWWETKIDPPVMNITQVN 171
                                        99
                                                                          64
                                                                                                                                                   Hartzall S., Ryder K., Landan A., Lau L.F., Nathans D.;

"A growth factor-responsive gene of murine BALB/c 3T3 cells encodes a protein homologous to human tissue factor.";

Mol. Cell. Biol. 9:2567-2573 (1989).

-! FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH CIRCULATING FACTOR VII OR VIIA. THE ITF VIIA] COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE IN NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
-!- SUBCELLULAR LOCATION: Type I membrane protein.
-!- SIMILARITY: BELONGS TO THE TISSUE FACTOR FAMILY.
                                      7 FLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKI
                                                                          17 FLGFLLLQVAVG-AGTPPG----KAFNLTWISTDFKTILEWQP----KPTNYTYTVQ---
                                                                                                            67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWKNKEDCWGTQELSCDLTSE-TS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Cloning of murine tissue factor and regulation of gene expression by transforming growth factor type beta 1."; J. Biol. Chem. 266:496-501(1991).
  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ranganathan G., Blatti S.P., Subramaniam M., Fass D.N., Maihle N.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bukaryota, Metazoa; Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia; Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
NCBI_TaxID=10090;
  93;
                                                                                                                                                                                                                                                                                                                                              227 EIEALTPHS----SYCVVAE--IYOPMLDRRSQRSEERCVE 261
                                                                                                                                                                                                                                                                                                                                                                        197 GRKINITHINEFLIDVEKGVSYCFFAQAVIFSRKINHKSPESITKCTE 244
  92; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TF MOUSE STANDARD, PRT; 294 AA.
P20352;
01-FEB.1991 (Rel. 17, Created)
01-AUG-1991 (Rel. 19, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
11seue factor precursor (TF) (Coagulation factor III).
F3 OR CF3 OR CF-3.
Mus musculus (Mouse).
37; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=89343974; PubMed=2761539;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
MEDLINE=91093171; Pubmed=1985911;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; M57896; AAA63400.1; -.
EMBL; M26071; AAA40414.1; -.
PIR; A32318; KFMS3.
HSSP; P13726; 1FRK.
MGD; MGI:88381; F3.
66; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                        153 ĠTKL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=BALB/c;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Getz M.J.;
                                                                                                                                                                                                                             93
                                                                                                                                                   65
  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOUSE
                                                                                                                                             g
                                      ò
                                                                  g
                                                                                                            ò
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                       원
                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                셤
```

```
92 DVTWAYEAKVLSVPRRNSVHGDGDQLVIHGEEPPFTNAPKFLPYRDTNLGQPVIQQFEQD 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAKYGQRQWRNKEDCWGTQELSCDLTSE-TS 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         126 DIQEPYYGRVRAASA------ 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              165 ---MNITQVNGSLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEG 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 FLGCLLLQVIAG-AGIPE-----KAFNLTWISTDFKTILEWQP----KPTNYTYTVQ--- 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 FLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKI
InterPro; IPR0010282; Cytok receptor_2.
InterPro; IPR001187; Tissue_factor.
Pfam; PR01108; Tissue_fac; 1.
PRINTS; PR00346; TISSUE_RACTOR.
PR051TE; PS00621; TISSUE_RACTOR; 1.
Palmitate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 247 WKS MOTIF.
37 N-LINKED (GLCNAC. .) (POTENTIAL).
57 N-LINKED (GLCNAC. .) (POTENTIAL).
169 N-LINKED (GLCNAC. .) (POTENTIAL).
200 N-LINKED (GLCNAC. .) (POTENTIAL).
83 BY SIMILARITY.
241 BY SIMILARITY.
275 PALMIARITY.
275 PALMIARITY.
276 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-277 N-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi;
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Aguet M., Dembic Z., Merlin G.; Molecular cloning and expression of the human interferon-gamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 294;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        36; Mismatches 100; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INGR HUMAN STANDARD; PRT; 489 AA.
P15560;
01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Interferon-gamma receptor alpha chain precursor (CDw119)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Phillimore B.; Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases. [3]
                                                                                                                                                                                                                                                                                                                                                                        TISSUE FACTOR.
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               222 AHRAVEIEALTPHSSYC--VVAEIYQPMLDRRSQRSEERCVE 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         205 NEFSIDVE---EGVSYCFFVQAMIFSRKTNQNSPGSSTVCTE 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                           POTENTIAL. CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.7%; Score 124; DB 1; 22.7%; Pred. No. 0.00035;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=89003065; PubMed=2971451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cell 55:273-280(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           294 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        64;
                                                                                                                                                                                                                                                                                                                                                                             CHAIN
DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CONFLICT
                                                                                                                                                                                                                                                                                                                                      SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INGR_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 15
                                                    REPARENTAL SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SERVICES OF THE SER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

(See http://www.isb-sib.ch/announce/

```
entities requires a license agreement ({
or send an email to license@isb-sib.ch}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         234 ;
489 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 56; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAND
STRAND
SEQUENCE
                                                                                                                                                                                                                                                                                                                                          DOMAIN
TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
DISULFID
DISULFID
CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                     DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAND
STRAND
TURN
TURN
STRAND
TURN
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAND
STRAND
STRAND
HELIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAND
STRAND
STRAND
HELIX
STRAND
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAND
STRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J.
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions also as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Usage by and for commercial
          TISSUE-Prosected.

X MEDINE-21386257; PubMed=12477932;

MEDINE-21386257; PubMed=12477932;

Strausberg R.L., Feingold E.G., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B. L., Buetow K.H., Schaefer C.F., Bhat N K.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N K.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Aspleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S.W., Worlby D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Nhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

Generation and initial analysis of more than 15,000 full-length

Numan and mouse cDNA sequences.",

1 Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                          X-RAY CRYSTALLOGRAPHY (2.9 ANGSTROMS) OF 26-248.
MEDLINE=95342235; PubMed=7617032;
Walter M.R., Windsor W.T., Nagabhushan T.L., Lundell D.J., Lunn C.A., Zauodny P.J., Narula S.K.;

"Crystal structure of a complex between interferon-gamma and its soluble.high-affinity receptor.";
Nature 376:230-235(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=98035727; PubMed=9367779; Sogbe B., Williams G., Birch A., Sogbe S., Stuart F., Henke C., Bridges A., Williams G., Birch A., Winkler F.K., Robinson J.A.; "Neutralizing epitopes on the extracellular interferon gamma receptor (IFRgammaR) alpha-ofhain characterized by homolog scanning mutagenesis and X-ray crystal structure of the A6 fab-IFNgammaR1-108 complex."; J. Mol. Biol. 273:882-897(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUBUNIT: Monomer.

SUBCELLULAR LOCATION: Type I membrane protein.

PIN: BEOSPHORYLATED AT SER/THR RESIDUES.

SIMILARITY: Contains 2 immunoglobulin-like C2-type domains.

SIMILARITY: Contains 2 fibronectin type III domains.

SIMILARITY: BELONGS TO THE CLASS II CYTOKINE FAMILY OF RECEPTORS.

DATABASE: NAME=PROW: NOTE=CD guide CDW119 entry;

WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cdw119.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X-RAY CRYSTALLOGRAPHY (2.9 ANGSTROMS) OF COMPLEX WITH ING.
MEDLINE=20444407; PubMed=10986460;
Thiel D.J., le Du M.H., Walter R.L., D'Arcy A., Chene C.,
Thiel D.J., acorta G., Winkler F.K., Ealick S.E.;
"Observation of an unexpected third receptor molecule in the crystal structure of human interferon-gamma receptor complex.";
Structure 8:927-936(2000).
-i- FUNCTION: RECEPTOR FOR INTERPERON GAMMA. TWO RECEPTORS BIND ONE INTERFERON-GAMMA DIMER.
                                                                                                                                                                                                                                                                                                                                           MEDLINE-93183911; PubMed-8443182;
Stueber D., Friedlein A., Fountoulakis M., Lahm H.-W., Garotta G.
Alignment of disulfide bonds of the extracellular domain of the
interferon gamma receptor and investigation of their role in
biological activity.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            K-RAY CRYSTALLOGRAPHY (2.8 ANGSTROMS) OF 28-122 IN COMPLEX WITH
                                                                                                                                                                                                                                                                                                                                DISULFIDE BONDS, PARTIAL SEQUENCE, AND MUTAGENESIS.
                                                                                                                                                                                                                                                                                                                                                                                                                  Biochemistry 32:2423-2430(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANTIBODY
```

```
10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                        INTERFERON-GAMMA RECEPTOR ALPHA CHAIN.
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL) (POTENTIAL) (POTENTIAL)
                                                                                                                                                             GO; GO:0005887; C:integral to plasma membrane; TAS.
GO; GO:0003800; F:antiviral response protein activity; TAS.
GO; GO:0004906; F:interferon-gamma receptor activity; TAS.
GO; GO:0006955; P:immune response; TAS.
GO; GO:0009619; P:resistance to pathogenic bacteria; TAS.
GO; GO:0009619; P:response to viruses; TAS.
GO; GO:0007615; P:response to viruses; TAS.
GO; GO:0007615; P:response to viruses; TAS.
InterPro; IPR000282; Cytok receptor 2.
Receptor; Transmembrane; Glycoprotein; Signal; Phosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.6%; Score 122.5; DB 1; Length 489; 20.1%; Pred. No. 0.00091; ive 49; Mismatches 103; Indels 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54404 MW; DCF9E574D8F47400 CRC64;
                                                                                                                                                                                                                                                                                                                                                                     POTENTIAL.
CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GLCNAC.
(GLCNAC.
(GLCNAC.
(GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-LINKED
N-LINKED
N-LINKED
N-LINKED
                                                                                                                                                                                                                                                                                                    Immunoglobulin domain; 3D-structure.
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95
106
1110
1115
1113
1134
1134
```

GTOSTHESLKPORV	FILPLYMQGVSRAEMGTADLGPSSVPTPTNVTIESYNMNPIVYWE 49	SHQKPSGCWQHISCNFPGCRTLAK	50 YQIMPQVPVFTVEVKN	119 DLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNGSLLVIL 178		SIEDYYELLYRVFIINNSLE	146 FHPSV-FVNGDEGEVDYDPETTCYIRVYNVYVRANGSEIQYKILTQKEDDCDEIQCQ 201	224 RAVEIEALTPHSSYCVVAEIYOPMLDRRSGRSEERCVEI 262	202 LAIPVSSLNSQYCVSAEGVLHVWGVTTEKSKEVCITI 238
PLISFFLT	: : : FLLPLVMQGVSR	YKIM	YOIMPOVP	DLTSETSD	::: NISDHVGD	HAPNLPYR	FHPSV-FV	RAVEIEAL	LAIPVSSL
10	w	64	20	119	98	179	146	224	202
λõ	ą	È	ପ୍ର	È	qq	È	qa	Ġ	ନ୍ଧ

Search completed: December 12, 2003, 12:26:06 Job time : 18.939 secs

```
Sequence 4, Application US/10047264A, Publication No. US20030170839A1, GENERAL INFORMATION:
APPLICANT: Fouser, Lynette
APPLICANT: Liu, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-047-264A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 6, Appli
Sequence 28, Appli
Sequence 22, Appli
Sequence 42, Appli
Sequence 1340, Ap
Sequence 1345, Ap
Sequence 1345, Ap
Sequence 1942, Ap
Sequence 5085, Appli
Sequence 65, Appli
Sequence 65, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 18, Appli
Sequence 18, Appli
                                                                                                                  December 12, 2003, 12:14:52; Search time 5.85763 Seconds (without alignments) 1016.022 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (graz 6/ptodata/2/pubpaa/US07 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US07 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US06 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US06 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US06 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/BCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US08 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US08 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US08 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US08 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US09 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US09 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US09 NEW PUB.ppp:*
(cgra 6/ptodata/2/pubpaa/US09 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US09 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US10 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US10 PUBCOMB.ppp:*
(cgra 6/ptodata/2/pubpaa/US10 NEW PUB.ppp:*
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 US-09-961-404-6
12 US-10-047-264A-4
12 US-10-047-264A-4
12 US-10-312-088-42
10 US-09-764-864-1140
10. US-09-764-864-1349
11 US-09-764-891-3345
12 US-10-094-749-1942
10 US-09-739-907-65
10 US-09-739-907-65
11 US-09-731-138
12 US-10-188-012-33
13 US-09-813-138
11 US-09-984-130-48
                                                                                                                                                                                                                              188 - - 1
1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                       684280 seqs, 185983659 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARIES
                                                                                                                                                                                                         US-10-047-264A-4_COPY_67_98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications AA:
                                                                                OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     188
188
188
188
188
55
55
51
51
51
51
51
51
51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                       Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Result
```

```
Sequence 28, Appl
Sequence 21, Appl
Sequence 24, Appl
Sequence 5, Appl
Sequence 50, Appl
Sequence 6, Appl
Sequence 6, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 14, Appl
Sequence 34, Appl
Sequence 34, Appl
Sequence 34, Appl
Sequence 34, Appl
Sequence 34, Appl
Sequence 34, Appl
                                                                                                                                                                                                                Sequence 110, App
Sequence 1662, Ap
Sequence 7, Appli
Sequence 10, Appl
Sequence 16, Appl
2 US-09-836-353A-48
2 US-10-354-047A-7
2 US-10-354-047A-18
2 US-10-354-047A-18
2 US-10-354-047A-28
5 US-10-072-602B-23
5 US-10-072-602B-24
5 US-10-072-602B-24
6 US-09-986-50-6
6 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-09-986-50-6
7 US-00-023-899-18
7 US-10-023-899-18
7 US-10-155-886-19
7 US-10-155-886-10
7 US-10-155-886-11
7 US-09-924-761-11
7 US-09-924-761-34477
7 US-10-155-886-11
7 US-10-155-886-11
7 US-10-155-886-11
7 US-10-155-886-11
7 US-10-155-886-11
```

ALIGNMENTS

```
Gaps
Sequence 6, Application US/09961404

| Bublication No. US20030022827A1
| Publication No. US20030022827A1
| GENERAL INFORMATION:
| APPLICANT: WEISS, BERTRAM
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: ASADULLAH, KHUSRU
| APPLICANT: ASADULLAH, KHUSRU
| TITLE OF INVENTION: FAMILY CLASS 2
| FILE REFERENCE: SCH-1788
| CURRENT APPLICATION NUMBER: US/09/961,404
| CURRENT FILING DATE: 2001-09-25
| NUMBER OF SEQ ID NOS: 19
| SEQ ID NO 6
| LEMTH: 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 100.0%; Score 188; DB 11; Best Local Similarity 100.0%; Pred. No. 5.5e-16; Matches 32; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
US-09-961-404-6
```

ó

```
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (93)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (95)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-864-1340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1340, Application US/09764864
; Sequence 1340, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; TILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT APPLICATION NUMBER: Lemoved - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1340
; LENGTH: 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 891, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REPERENCE: PT223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 30.1%; Score 56.5; DB 10; Best Local Similarity 39.3%; Pred. No. 7.9; Matches 11; Conservative 5; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; Score 188; DB 12;
; Pred. No. 5.5e-16;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MFSCSMKSSHOKPSGCWOHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      67 MFSCSMKSSHOKPSGCWOHISCNFPGCRTLAK 98
APPLICANT: Xiang, Zhaoying
APPLICANT: Xie, Qing
APPLICANT: Rich, Ging
APPLICANT: Rich, Safia K.
TITLE OF INVENTION: NOVEL COMPOUNDS
FILE REPERENCE: GP50029
CURRENT PILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: UG/10/312,088
PRIOR FILING DATE: 2001-06-22
PRIOR PILING DATE: 2001-06-22
PRIOR PILING DATE: 2000-06-22
PRIOR PILING DATE: 2000-06-22
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PastEEG for Windows Version 4.0
SOFTWARE: PastEEG for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 SSHQKPSG---CWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 SSHEETPGSHPLYGHGECKWPGCETLCE 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 32; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 6
US-09-764-864-891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 28, Application US/10293832
| Publication No. US20030180752A1
| Publication No. US20030180752A1
| GENERAL INFORMATION:
| APPLICANT: Liu, Wei
| APPLICANT: Fouser, Lynette
| APPLICANT: Pouser, Lynette
| APPLICANT: Pouser, Lynette
| APPLICANT: Pouser, Lynette
| APPLICANT: Papulding, Vikki
| TITLE OF INVENTOR: 22058-546
| CURRENT APPLICATION NUMBER: US/10/293,832
| CURRENT APPLICATION NUMBER: US/0/332,366
| PRIOR APPLICATION NUMBER: US 60/332,366
| PRIOR FILING DATE: 2001-11-09
| NUMBER OF SEQ ID NOS: 33
| SOFTWARE: Patentin version 3.2
| SEQ ID NO 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
APPLICANT: Deng, Bijia
TITLE OF INVENTION: TYPE 2 CYTOKINE RECEPTOR AND NUCLEIC ACIDS ENCODING
TITLE OF INVENTION: SAME
FILE REFERENCE: 22058-532
CURRENT APPLICATION NUMBER: US/10/047,264A
CURRENT PILING DATE: 2002-01-14
PRIOR PLILING DATE: 2001-01-12
PRIOR PLILING DATE: 2001-01-12
PRIOR PLILING DATE: 2001-02-06
PRIOR PLILING DATE: 2001-02-06
PRIOR PLILING DATE: 2001-02-06
PRIOR PLILING DATE: 2001-02-03
PRIOR PLILING DATE: 2001-02-23
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PATENTIN VET: 2.1
SEG ID NO 4
LENGTH: 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ch 100.0%; Score 188; DB 12; Similarity 100.0%; Pred. No. 5.5e-16; 32; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 188; DB 12;
100.0%; Pred. No. 5.5e-16;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67 MFSCSMKSSHOKPSGCWOHISCNFPGCRILLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 42, Application US/10312088 Publication No. US20030219862A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Agarwal, Pankaj
Cogawell, John P.
Kabnic, Karen S.
Lai, Ying-Ta
Martensen, Shelby A.
Murdock, Paul R.
Smith, Randall F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.
Matches 32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 263
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 32; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Agarwal,
APPLICANT: Cogswel
                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 4
US-10-312-088-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-293-832-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-047-264A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-293-832-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
```

Length 103;

Indels

g

Gape

ö

Indels

ઠ 셤

ઠે 셤

```
ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: SITE

1. LOCATION: (19)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
1. LOCATION: (45)

1. LOCATION: (45)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-891-3345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
NAME/KRY: SITE
LOCATION: (11)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3445, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INPORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REPERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper;
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                 FEATURE:
OTHER INFORMATION: MAP TO ACO06249.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.64
OTHER INFORMATION: EXPRESSED IN PLACERTA, SIGNAL = 0.68
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.83
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.78
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.78
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.59
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.59
US-09-864-761-43449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27.7%; Score 52; DB 11; Length 63; 42.1%; Pred, No. 19;
                                                                                                                                                                                                                                  ch
1 Similarity 52.4%; Pred. No. 6.5;
11; Conservative 1; Mismatches 7: Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1942, Application US/10094749
Publication No. US20030219741A1
GENERAL INPORMATION:
APPLICANT: ISCGAI, TAKAO
APPLICANT: GYGUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
                                                                                                                                                                                                                                                                                                           10 HOKPSGCWQHISCNFPGCRTL 30
                                                                                                                                                                                                                                                                                                                                     1 HOKLSRRWCHASCT--ACRTM 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 SMKSSHOKPSGCWOHISCN 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21 SMLRSYYNTGSCWSHCKCN 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ISHII, SHIZUKO
YAMAMOTO, JUN-ICHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 42.1
Matches 8; Conservative
                     TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 11; Conserva
                                                                                                                                                                                                                                                                                                                                                                                          RESULT 8
US-09-764-891-3345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 9
US-10-094-749-1942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                              Ä
                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                         ë.
                                                                                                                                                                                      Length 399;
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 1792
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 891
LENGTH: 399
                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 43449
                                                                                                                                                                                      DB 10;
                                                                                                                                                                                    Query Match
30.1%; Score 56.5; I
Best Local Similarity 39.3%; Pred. No. 27;
Matches 11; Conservative 5; Mismatches
                                                                                                                                                                                                                                                       8 SSHOKPSG---CWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                          // Sequence 43449, Application US/09864761
// Patent No. US20020048763A1
                                                                                                                 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-864-891
                                                                                                                                                                                                                                                                                                                                                         US-09-864-761-43449
```

```
Sequence 65, Application US/0973907; Patent No. US20010012889A1; GENERAL INDEMARION:
GENERAL INDEMARION:
TILLGANT: ROSEN et al.
TILLE OF INVENTION: 36 Human Secreted Proteins
FILE REFERENCE: P2022P1
CURRENT APPLICATION NUMBER: US/09/739,907.
CURRENT FILING DATE: 1999-07-07; PRIOR FILING DATE: 1999-07-07; PRIOR APPLICATION NUMBER: 60/070,567
PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1998-01-07; PRIOR FILING DATE: 1908-01-07;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 27.1%; Score 51; DB Best Local Similarity 40.0%; Pred. No. 66; Matches 8; Conservative 2; Mismatches
                                                 33 YAAAWESAHQLKATSQEVFSCEFLGCR 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 33, Application US/10188012
Publication No. US20030124114A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: H. sapiens
FEATURE:
NAME/KEY: VARIANT
OCATION: (1)...(378)
OTHER INFORMATION: TIM-4, allele 1
US-10-188-012-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 · APPLICANT: McIntire, Jennifer Jones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 SHOKPSGCWOHISCNFPGCR 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46 SHNSNSMCWGKDQCPYSGCK 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Publication No. US20030124114A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-09-739-907-65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JS-10-188-012-33
                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 12; Length 107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 27.1%; Score 51; DB 10; Length 63; Best Local Similarity 33.3%; Pred. No. 25; Matches 9; Conservative 7; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7; Indels
                                                                                                                                                                                                                               APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: MAGAHARI, KENJI
APPLICANT: MAGHARI, KENJI
APPLICANT: MASUHIO, YASUHIKO
TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: 00350,435
PRIOR FILING DATE: 2002-01-24
PRIOR FILING DATE: 2002-01-24
PRIOR FILING DATE: 2001-01-14
NUMBER OF SEQ ID NOS: 3381
SOFTWARE: PATENTIN VENTION: 3381
SOFTWARE: PATENTIN VENTION: 3381
SOFTWARE: PATENTIN VEY: 2.1
SEQ ID NO 1942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 27.4%; Score 51.5; D
Best Local Similarity 43.5%; Pred. No. 35;
Matches 10; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: OCHIAI, KEIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: TREBAH, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: OKAZI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: JO 09/138,626

PRIOR FILING DATE: 2000-12-18

PRIOR FILING DATE: 1999-12-16

PRIOR PILING DATE: 2000-04-07

PRIOR APPLICATION NUMBER: JP 00/159162

PRIOR APPLICATION NUMBER: JP 00/280988

PRIOR PILING DATE: 2000-08-03

PRIOR FILING DATE: 2000-08-03

NUMBER OF SEQ ID NOS: 7059

SOFTWARE: Patentin ver. 3.0

SOFTWARE: Patentin ver. 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5085, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-5085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9 SHOKPSGCWOHISCNFPGCRILA 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70 SHTHISSCW----NFPSCHVLS 87
                                                                                                                                                                                 TAMECHIKA, ICHIRO SEKI, NAOHIKO
                              HIO, YURI
OTSUKA, KAORU
NAGAI, KEIICHI
                                                                                                                                               RYOTARO
ISONO, YUUKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-1942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JS-09-738-626-5085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
```

```
ö
                                                   Gaps
                                                   ö
                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Uneten, Dale T.
APPLICANT: Uneten, Dale T.
APPLICANT: Uneten, Uneten, Dale T.
APPLICANT: Ruchroo, Vijay
APPLICANT: Freemen, Gordon J.
TITLE OF INVENTION: T Cell Regulatory Genes and Methods of TITLE OF INVENTION: Use Thereof FILE REPERSINCE: STAN-235
CURRENT APPLICATION: UNBER: US/10/188,012
CURRENT FILING DATE: 2002-07-01
PRIOR APPLICATION NUMBER: 60/302,344
RICR FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 36
SEQ ID NOS: 36
SEQ ID NOS: 36
SEQ ID NOS: 37
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27.1%; Score 51; DB 15; Length 378; 40.0%; Pred. No. 1.3e+02;
Score 51; DB 9; Length 183;
Pred. No. 66;
                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
```

Gaps

ö

```
Query Match

27.1%; Score 51; DB 11; Length 379;
Best Local Similarity 40.0%; Pred. No. 1.3e+02;
Matches 8; Conservative 2; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 51; DB 11; Length 995;
Pred. No. 3.1e+02;
3; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-US-984-130-48

US-US-984-130-48

Publication No. US20030055231A1

GENERAL INFORMATION:

TITLE OF INVENTION:

TITLE REFERENCE: PR489P2

CURRENT APPLICATION NUMBER: US/09/984,130

CURRENT FILING DATE: 2001-10-29

PRIOR PRIOR PRILING DATE: 2001-10-29

PRIOR APPLICATION NUMBER: 60/243,792

PRIOR FILING DATE: 2001-04-18

PRIOR FILING DATE: 2001-04-18

PRIOR FILING DATE: 1999-10-27

PRIOR FILING DATE: 1999-10-27

PRIOR FILING DATE: 1999-10-27

PRIOR FILING DATE: 1999-10-28

SOFTWARE: PATENTING DATE: 1999-10-28

SOFTWARE: PATENTING UNCE: 1998-10-28

LENGTH: 995
                                                                                                                                                                                     ; IOCATION: (379)
; OTHER INFORMATION: Xaa equals stop translation
US-09-813-153-139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search completed: December 12, 2003, 12:24:05
Job time : 5.85763 secs
                                                                                                                                                                                                                                                                                                                                                                                                9 SHOKPSGCWOHISCNFPGCR 28
                                                                                                                                                                                                                                                                                                                                                                                                                                               46 SHNSNSMCWGKDQCPYSGCK 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12 KPSGCWQHISCNFPGCRT 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 KPTPNSERVSVRFPGCRT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 27.1%;
Best Local Similarity 50.0%;
Matches 9; Conservative
                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                      NAME/KEY: SITE
NUMBER OF SEQ I
SOFTWARE: Paten
SEQ ID NO 138
LENGTH: 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JS-09-984-130-48
                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
     Gaps
     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                  USERVILLE OF INVESTION US/10188012

PUBLICATION OF US20030124114A1

GENERAL INFORMATION:

APPLICANT: Winchtie, Jennifer Jones

APPLICANT: Winchtie, Jennifer Jones

APPLICANT: Exement Dale T.

APPLICANT: Exement Gordon J.

TITLE OF INVESTION: T Cell Regulatory Genes and Methods of

TITLE OF INVESTION: T Cell Regulatory Genes and Methods of

TITLE OF INVESTION: Use Thereof

FILE REFERENCE: STAN-235

CURRENT APPLICATION NUMBER: US/10/188,012

CURRENT PILING DATE: 2002-07-01

PRIOR PELING DATE: 2001-06-29

NUMBER OF SEQ ID NOS: 36

SEQ ID NO 35

LENGTH: 378

LENGTH: 378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27.1%; Score 51; DB 15; Length 378; 40.0%; Pred. No. 1.3e+02; Live 2; Mismatches 10; Indels
     10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 118, Application US/09813153
Fublication No. US20030045459A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
ATTLE OF INVENTION: 67 Human secreted proteins
FILE REFERENCE: PZ023
CURRENT APPLICATION NUMBER: US/09/813,153
CURRENT FILING DATE: 1999-07-29
FRIOR FILING DATE: 1999-07-29
FRIOR FILING DATE: 1999-01-30
FRIOR APPLICATION NUMBER: 60/073,160
FRIOR PELICATION NUMBER: 60/073,160
FRIOR PELICATION NUMBER: 60/073,165
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR APPLICATION NUMBER: 60/073,167
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR APPLICATION NUMBER: 60/073,167
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
FRIOR FILING DATE: 1998-01-30
  2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (1)...(378)
; OTHER INFORMATION: TIM-4, allele 2
US-10-188-012-35
                                                 9 SHOKPSGCWOHISCNFPGCR 28
                                                                                46 SHNSNSMCWGKDQCPYSGCK 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 SHOKPSGCWOHISCNFPGCR 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46 SHNSNSMCWGKDQCPYSGCK 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 40.0 Matches 8; Conservative
  8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: H. sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
```

Gaps

ô

```
56.5
    21
                                                                                                                                                                                                                                                                                          December 12, 2003, 12:15:52; Search time 8.13559 Seconds (without alignments) 624.325 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A Geneseq 19Jun03:*

| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1982.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1985.DAT:*
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1985.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1980.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1980.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1990.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1990.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1991.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1991.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1991.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA1992.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2002.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2002.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2002.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2002.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2002.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-embl/AA2003.DAT:*
| SIDSI/gcgdata/geneseqfgeneseqp-emb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1107863
                                     GenCore version 5.1.6
(c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-047-264A-4_COPY_67_98
188
1 MFSCSMKSSHQXPSGCWQHISCNPPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1107863 segs, 158726573 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                          OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                               Run on:
```

	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e de de de de de de de de de de de de de
r	Human PRO1959 pol Cytokine receptor Human cytokine rec Human cytokine rec Human LI-TIP/II-22 Human novel secret	el poly
ption	PRO:	NOU I
Description	Humar Cytob Humar Humar Humar	Humar Humar Humar
	1 1 1 1 1	
SE	; t 1 1 1 1	
UMMARIES	AAU09186 ABJ10499 AAO17382 AAE17321 AAU80324	5456 5938 5007
SU GI	AAU AACI AACI AACI AAUB	ABUS
	23 23 23 23 23 23 23 23 23 23 23 23 23 2	27 27 24 27
% Query Match Length DB	263 263 263 263 103	103 388 388
% Query Match	100.0 100.0 100.0 100.0 81.4	7.08 30.08
Score	188 188 188 188 153 56.5	56.5 56.5 56.5
Result No.	- - - - - - - - - - - - - - - - - - -	r co o

Human nucleic acid Protein encoded by Human tumour suppr	Propionibacterium Human liver peptid	Peptide #5932 enco Human brain expres		Human peptide enco	Human reproductive Propionibacterium	Hepatitis GB virus	Human apolipoprote	C qlutamicum prote	Human secreted pro	Propionibacterium Himan secreted nro	Human polypeptide	Amino acid sequenc	Amino acid sequenc	Mycobacteria apen	Novel human diagno	Mycobacterium spec	P-superfamily cono	P-superfamily cono	Conus sp conotoxin	Propionibacterium	dlagn thali	thali	Arabidopsis thalia Arabidopsis thalia	X.E.	7					,	•	disorder;	odeficie	ve;	iabetic.					4	on stre	on site"	nolvnentide		site"	site"		
AAE25288 AAW70899 AAY44704	142091 353249	138426 159036	171567	41379	194687 751635	194345	211527	91331	11089	153344 138395	139027	70446	70447	00/07	11413	04813	103908	103920	199374	160034	103615	49802	18277	ALTCNMENTS	Name of the	ā	:					immun:	is disor	ciated d	; antid			2	peptide	ž	оутаст	oylati	PRO19598		"N-glycosylation	8 "N-olvcosvlation		
348	ABG	A &	A A	ABC	A A	AA	ABE	A	ABE	AAC	Ź	ABE	ABE	Y A	ABC	A	A	E E	ABG	AAG	ABG	X	AA	A	•	263	0					5887;	tion	ğΘ.				4		7	TIBL	rist	a	t	усов	VCO		
23	5 5 5	77	222	23	7 7	16	2 5	7 7	22	2 2	2 2	24	24	2 0	22	50	2 5	2 2	23	5 5	22	7 7 7	212				1		3		de.	NA14	nfec	tion ass	sthm		,	7.00	Signa	i	Ì	"N-myri	Matur		N-gl	N-01	, :	
668 761 761	105	700	50 70 70	20	308	16	1008	3 9	124	144 244	378	378	378	ν ν α	154	234	27	88	83	358	443	192	307						t entry)		ypeptid	clone D	der, i	antati	antia		4	.20 20	abel=	. 22	25	ote= "	262 ahel=	. 58	11 "	165168 /note= "]	17	
1.00					٠.		•		•	•		•	•			٠	•			•	٠					, 100 100 100 100 100 100 100 100 100 10	מזמן.		(first	:	8 poly	98, 0	lisord	ransplanta	ory;		,	3 -	:<	17	207	F .	7.7	. 22	7 '	1.5	17	
N 00 00	666	7 7	7 7	N	0 0	7	7 6	7 7	2	2 6	2 63	27	2 6	7 6	8	2	3 6	3 %	2	3 6	2 2	7 7	7 7 7			1	פרמוור			,	959	1959	7.7	trai	mmat	ens.				site	Site	•		site		116	site	
56.5 55 55	223	52 52	52	22	52 52	S.	51.5	: 2	51	<u> </u>	217	51	21	۰.	50.5	6	20	2 2	20	20	s,	. 6	4. 4. 0. 0. 0. 0.			T 1 186		AAU09186;	6TAN-2002	:	Human PRO1	ıman; PRC	ıflammatc .toimmıng	neoplasia; tr	ıti-infla	Homo sapie	;	ey entide	24	Modified-в	Modified-8		rotein	Modified-8	4.6.00	Modified-Bi	Modified-s	
111	1113	16	17	13	20	22	23	25	26	27	29 67	30	31	0 K) W	35	36	. œ	39	40	41.4	4. 4. 4. W	4 4			SOL 109			_			H KM KM					•	4 D					Δ.				FT	

```
The invention relates to an isolated type 2 cytokine receptor family (CRF2-12) nucleic acid molecule encoding a polypeptide with amino acids 1-66 of a 231 residue amino acid sequence, given in the specification, or its complement. The compositions and methods of the present invention are useful for diagnosing, screening and treating disorders associated with abnormal CRF2-12 acitivity such as autoimmune diseases like rheumatoid archritis, multiple sclerosis and inflammation. This sequence represents a cytokine receptor family 2 (CRF2-12) protein relating to the
                                                                                                 Immunosuppressive, antirheumatic, antiarthritic, neuroprotective; antiinflammatory, interleukin-antagonist-22, agene therapy, interferon-antagonist-alpha; interferon-antagonist-beta; interferon-antagonist-obeta; interferon-antagonist-gamma, cytokine receptor family 2; CRF2-12; autoimmune disease; rheumatoid arthritis; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human, cytokine receptor; immune disease; psorlasis; cancer; infection; rheumatoid arthritis; multiple sclerosis; Crohn's disease; ulcerative colitis; transplant rejection; abortion; antipsoriatic; immunosuppressive; antirheumatic; antiarthritic; neuroprotective; antiinflammatory; antiulcer; cytostatic; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated CRF2-12 nucleic acid encoding a polypeptide, useful for diagnosing and treating disorders with abnormal CRF2-12 activity such as autoimmune diseases like rheumatoid arthritis, multiple sclerosis
                                                   Cytokine receptor family 2 (CRF2) related protein SEQ ID No 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 188; DB 23;
; Pred. No. 1.6e-17;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MFSCSMKSSHOKPSGCWOHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human cytokine receptor variant 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAO17382 standard; Protein; 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 2; Page 7; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JAN-2001; 2001US-261442P. 06-FEB-2001; 2001US-267021P. 23-FEB-2001; 2001US-270835P.
                                                                                                                                                                                                                                                                                                                                                                                                                                           14-JAN-2002; 2002WO-US00986.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'n.
21-NOV-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GEMY ) GENETICS INST LLC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-AUG-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              32, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-674946/72.
N-PSDB; ABT08217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Liu W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and inflammation
                                                                                                                                                                                                                                                                                                                                    WO200266647-A2
                                                                                                                                                                                                                                   inflammation.
                                                                                                                                                                                                                                                                                    Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                        29-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fouser L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAO17382;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA017382
  6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to the isolation of 9 novel human PRO polypeptides and the CDNA sequences (AAS15360-AAS15368) encoding them. The novel PRO polypeptides include PRO1356, PRO1368, PRO1368, PRO3444, PRO3151, PRO9544, PRO1008 and PRO19558. The CDNA sequences encoding these PRO polypeptides have been designated as clones DNA92213-2567, DNA96403-1553, DNA84118-2520, DNA87997, DNA89273, DNA922213-2567, DNA96403-1553, DNA101921 and DNA1A18997 respectively. Compositions (e.g. vaccines) containing PRO polypeptides and methods of immune-related disorders (e.g. otherwise) containing PRO polypeptides and methods of inflammatory disorders (e.g. otherwise), include immune-mediated inflammatory disorders (e.g. otherwise), include immune-mediated inflammatory disorders (e.g. otherwise), include immune-mediated contoining the provine system (e.g. diabetes mellitus), infectious disorders (e.g. otherwise), immune-related renal diseases (e.g. cirrhosis), demyelinating diseases of the peripheral or central nervous system (e.g. Guillain-Barre syndrome), immune-mediated skin diseases (e.g. contact dermatitis), neoplasias and transplantation associated diseases. The polynucleotide sequences of the invention may be contact dermatities of the present the novel human contact dermatities are syndromed to the province of the contact dermatities of the province of the novel human contact dermatician may be contact dermatities of the province of the invention may be contact dermatities of the province of the novel human contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be contact dermatician may be conta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acids encoding PRO polypeptides, useful for detecting and treating immune related diseases and disorders in mammals including autoimmune diseases, inflammatory diseases and asthma -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 262;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godowski PJ, Grimaldi CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 188; DB 22;
100.0%; Pred. No. 1.5e-17;
iive 0; Mismatches 0;
                                                                                                                                                       /note= "N-myristoylation site"
  "N-glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #FSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zhang Z;
                                                "N-glycosylation
                                                                                                 "N-glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABJ10499 standard; Protein; 263 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              be used in gene therapy. ĀAU09178.
PRO polypeptides of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; Fig 18; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fong S, Goddard A, Watanabe CK, Wood W
                                                                                                                                                                                                                                                                                                                                                                                        2000US-191015P
                                                                                                                                                                                                                                                                                                         01-MAR-2001; 2001WO-US06666
                                                                                                                                                                                                                                                                                                                                                               2000US-187202P
                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-209832P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US23328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-2000; 2000WO-US32678
                     191..194
/note= "N
                                                                                                    /note= "N
220..225
                                                                   208..211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 100.
nes 32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001-625876/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             262 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAS15368.
                                                                                                                                                                                                     WO200166740-A2
                        Modified-site
                                                                         Modified-site
                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                          03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                      05-JUN-2000;
24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                  21-MAR-2000;
30-MAY-2000;
                                                                                                                                                                                                                                                         13-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eaton DL,
Tumas D, 6
```

WPI;

ö

Gaps

. 0

Sequence

Query Match

Best Loc Matches

ABJ10499

RESULT 2 ABJ10499

g δ

Length 263; IndelB

```
The invention relates to secreted and membrane-associated polypeptides and polymucleotides. The sequences of the invention are useful in diagnostic assays for detecting diseases associated with inappropriate activity or leavels of these polymucleotides, and in identifying their agonists and antagonists that are potentially useful in therapy. The sequences of the invention are useful as vaccines for inducing their esponse. The sequences of the invention are useful for treating cancers, infections, autoimmune disorders, haematopoietic disorders, wound healing disorders, cholesteryl ester storage disease, inflammation, congenital museular dystrophy, junctional epidermolysis cullosa, Parkinson's disease, Huntington's chorea, multiple sclerosis, viral and bacterial infections, Alzheimer's disease, asthma, arthritis, allergies, schizophrenia, sbd442445PROa-associated disorders arthritis, cyclesis, poriasis, inflammatory bowel disease, asthma, arthritis, springer, restenosis, brain injury, AIDS, bome diseases, transplant rejection, graft verse host disease, ischaemia, stroke, acute respiratory disease including parasupranuclear palsy, myotonic dystrophy, ceppicatory diseases including chronic obstructive pulmonary disease.

Crespiratory diseases including diseases mellitus, renal disease.

Crespiratory diseases including diseases mellitus, renal disease including chronic renal fallure, and mon-viral hepatitis, type II disbetes mellitus, renal disease including obstruction and cropical sprue, spleen disorders including hypersplenism, obstruction and tropical sprue, spleen disorders including propersions and elemental muscle diseases including low testosterone and malignant lymphoma, testicular cancer, male infertible.

Creproductive din
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            secreted and membrane-associated polypeptides and polynucleotides . for preventing, ameliorating or correcting dysfunction or se including diabetes, cancer, hypertension and growth
                                                                                                                                                                                                                                                                                                                                   , Kabnic KS, Lai Y, Martensen SA;
Strum JC, Xiang Z, Xie Q, Rizni SK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 188; DB 23;
100.0%; Pred. No. 1.6e-17;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is human cytokine receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 133-134; 138pp; English.
                                                                                                                                                                                                                             (SMIK ) SMITHKLINE BEECHAM CORP
(SMIK ) SMITHKLINE BEECHAM PLC.
(GLAX ) GLAXO GROUP LTD.
                                                                                                                                                                           22-JUN-2000; 2000US-213161P.
                                                                                              22-JUN-2001; 2001WO-US19929
                                                                                                                                                     22-JUN-2000; 2000US-213156P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                         Cogswell JP,
Smith RF, S
                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-139783/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match Best Local Similarity Matches 32; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; AAD27816.
WO200198342-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    abnormalities
                                                                                                                                                                                                                                                                                                                                            P,
PR,
                                                 27-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                         Agarwal |
Murdock |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAU8032,
용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; therapy; wound healing disorder; vaccine; cancer; infection; autoimmune disorder; haematopoietic disorder; inflammation; arthritis; parkinnon; disease; Huntington's chorea; schizophrenia; antiarrhythmic; multiple sclerosis; Alzheimer's disease; analgesic; cardiant; asthma; ischaemia; stroke; AlDS; bone disease; atherosclerosis; brain disorder; respiratory disease; liver disorder; Fanconi's syndrome; spleen disorder; type II diabetes mellitus; skeleta! Fanconi's syndrome; spleen disorder; type II diabetes mellitus; skeletal muscle disorder; immunosuppressive; hypersplenism; renal disease; hyposlycaemia; gastrointestinal disease; naemostatic; vulnerary; anticonvulsant; anticheumatic; neuroprotective; nephrotropic; hypotensive; vasotropic; cytostatic; cerebroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides the protein and coding sequences of 3 variants of a human cytokine receptor. The sequences can be used in the diagnosis, prevention and treatment of immune diseases, including psoriasis, cancer, chronic/life-threatening infections, rheumatoid arthritis, multiple sclerosis, Crohn's disease, ulcerative colitis and transplant rejection and in reproductive medicine, e.g. for diagnosing abnormal immune reactions which cause abortions. The present sequence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid encoding soluble cytokine receptor, useful for diagnosis and treatment of e.g. immune disease, also related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human cytokine receptor protein, sbg456548CytoRa #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 188; DB 23; 100.0%; Pred. No. 1.6e-17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67 MFSCSMKSSHOKPSGCWQHISCNFPGCRILAX 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                         Toshi L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAE17321 standard; Protein; 263 AA
                                                                                                                                                                                                                                                                                                                                                                                                                         Assadullah K,
  chromosome 6q24:1-25.2; receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 6; Page 15; 21pp; German.
                                                                                                                                                                                                                                                              25-SEP-2000; 2000DE-1048626.
17-NOV-2000; 2000DE-1058907.
19-DEC-2000; 2000DE-1064906.
                                                                                                                                                                                                            24-AUG-2001; 2001EP-0250307.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                variant 3 of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-332210/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                     (SCHD ) SCHERING AG
                                                                                                                                                                                                                                                                                                                                                                                                                            Sabat R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    263 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB; AAL46001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and antibodies
                                                                                                         EP1191035-A2.
                                                       ношо варіепв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-APR-2002
                                                                                                                                                           27-MAR-2002
```

Sequence

Matches

Weiss B,

AAE17321;

RESULT

ద

ö

Gaps

ö

AAU80324 standard; Protein; 263 AA

AAU80324

Homo sapiens

allergy;

Length 263; Indele

```
Human novel secreted protein, Seg ID 1340.
                                                                                                                                                                                                                                                                                                                             WO200155322-A2.
                                                                                                                                                                                                                                                                                   Homo gapiens
                                                                                                                                                                                                                                                                                                                                                                             02-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a new polynucleotide that encodes a soluble protein which binds to interleukin (IL)-TIF/IL-22 (also referred to as IL-228P), where the complementary sequence of the invention hypridises under stringent conditions to a nucleotide sequence of 2271 or 2366 base pairs, as given in the specification. The molecules of the invention are useful for inhibiting (antagonising) effect of IL-TIF/IL-22 invention are useful for inhibiting under IL-TIF/IL-22 is present in a sample, for inhibiting binding of IL-TIF/IL-22 to a binding partner, preferably in vitro, and for obtaining an antibody molecule specific for the soluble binding protein of the invention, from a population or panel of antibody molecules of diverse binding specificity. The soluble protein is further useful in manufacture of a medicament for treating an IL-22 mediated fasease and for assaying an agent, preferably antibody or a peptide fragment of IL-TIF/IL-22 or the soluble protein that modulates binding of the soluble protein to IL-TIF/IL-22, where the agent identified is used in the manufacture of medicament for treating IL-TIF/IL-22 mediated disorder. The antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein, where the antibody is determining presence of the soluble protein was included the manufacture of the wall included the manufacture of the manufacture of the soluble protein, where the antibody is determining presence of the soluble protein was included the manufacture of the soluble protein was included the manufacture of the soluble protein, where the antibody is detected by the soluble protein and the manufacture of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Polynucleotide and polypeptide of soluble protein which binds to interleukin-TIF/IL-22 useful for inhibiting effect of IL-TIF/IL-22 on a
                                                                                                              Human, soluble protein, interleukin-TIF/IL-22; IL-TIF/IL-22; IL-22BP;
IL-TIF/IL-22 antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ch 81.4%; Score 153; DB 23; Length 263; 1 Similarity 84.4%; Pred. No. 8.8e-13; 27; Conservative 0; Mismatches 5; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human IL-TIF/IL-22 binding protein #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 14; Page 41-42; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (LUDW-) LUDWIG INST CANCER RES.
                                                                                                                                                                                                                                                                                                                                                                        22-SEP-2000; 2000US-234583P.
03-NOV-2000; 2000US-245495P.
31-JUL-2001; 2001US-0919162.
                                                                                                                                                                                                                                                                                                                             21-SEP-2001; 2001WO-US29576
                    15-JUL-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Renauld J, Dumoutier L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-383190/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           263 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; ABK50080
                                                                                                                                                                                                                              WO200224912-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the invention.
                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                              28-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAU16387
ID AAU1
XX
AC AAU1
XX
DT 07-F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 6
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
```

AAU16387 standard; Protein; 103 AA

(first entry)

07-NOV-2001 AAU16387;

```
Human, immunosuppressive, antiarthritic; antirheumatic; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; cerebroprotective; nootropic; cerebroprotective; antibacterial; virucide; fungicide; opthalmalogical; vulnerary; secreted protein; rheumatoid arthritis; hyperproliferative disorder; cardiovascular disorder; cardiovascular disorder; cerebral ischaemia; anglogenesis; nervous system disorder; Alzheimer's disease; infection; ocular disorder; corneal infection; wound healing; epithalial cell proliferation; skin ageing; food additive; preservative; antiproliferative.
                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0226868.
2000US-0227182.
2000US-0227009.
                                                                                                                                                                                                                                                                                                                                                                       2000US-0225268
                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0225759
                                                                                                                                                 17-JAN-2001; 2001WO-US01341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0229509
2000US-0229513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0229343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0229344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000US-0232397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-SEP-2000;
```

05-DBC-2000;

```
2000US-0233064.
2000US-0233065.
2000US-0234223.
                                                                                 2000US-0235836
2000US-0236327
                                                                                                                                           2000US-0237039.
2000US-0237040.
                                                                                                                                                                                                000US-0241787.
                                                                                                                                                                                                                                                                                                                                                                         000US-0249212.
                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0249217
                                                                           2000US-0235834
                                                                                                                                      2000US-0237038
                                                                                                                                                                                                                                                                                                                                                                   000US-0249211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0251030
                                                                     2000US-0235484
                                                                                                                                                               000US-0239937
                                                                                                                                                                                         000US-0241786
                                                                                                                                                                                                                                                                                                              2000US-0246609
                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-0249244
                                          21-SEP-2000; 2
21-SEP-2000; 2
25-SEP-2000; 2
25-SEP-2000; 2
26-SEP-2000; 2
                                                                                                                                                                                                                         01-NOV-2000;

08-NOV-2000;

                                                                                                                                                            13-0CT-2000;
20-0CT-2000;
20-0CT-2000;
20-0CT-2000;
20-0CT-2000;
20-0CT-2000;
                                                                           27-SEP-2000;
27-SEP-2000;
                                                                                               29-SEP-2000;
                                                                                                                                                                                                                                                                                                                                               17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                17-NOV-2000;
                                                                                         29-SEP-2000;
                                                                                                                                                                                                                                                                                                                                 08-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                            NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                          17-NOV-2000;
                                                                                                                                      02-OCT-2000;
```

```
The invention relates to isolated nucleic acid molecules and their encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliozate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used in diagnosing a pathological condition or susceptibility to a pathological condition. Antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbant assays (ELISA). Disorders which are diagnosed or treated immunosorbant assays (ELISA). Disorders which are diagnosed or treated immunosorbant disorders e.g. rheumatoid arthritis, or property disorders e.g. rheumatoid arthritis, or property disorders e.g. cardiac arrest, cerebrovascular disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungion and coular disorders e.g. corneal infection, and many other disorders e.g. corneal infection, and many other disorders e.g. corneal infection, and many other disorders e.g. cransplantation, for supporting cell culture of primary tissues, to prevent skin aging due to sunburn, to maintain organs before cransplantation, for supporting cell culture of primary tissues, to respensate tissues and in chemotaxis. The polypeptides can also be used as food additive or preservative to increase or decrease storage as a food additive or preservative to increase or decrease storage as a food additive or preservative to increase or decrease storage and inchemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage as a food additive or preservative to increase or decrease storage as a food additive or preservative to increase or decrease storage appailities; fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional carbohydrate, vitamins, minerals, cofactors and other nutritional carbohydrate, with the present the present of preserv
                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid molecules encoding 461 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30.1%; Score 56.5; D
39.3%; Pred. No. 4.3;
:ive 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 11; SEQ ID No 1340; 980pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SSHOKPSG---CWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SSHEETPGSHPLYGHGECKWPGCETLCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABU55456 standard; Protein; 103 AA
                                                                                                                                                                                                                                                                                Ruben SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human novel polypeptide #543.
                                                                             2000US-0251868.
2000US-0251869.
2000US-0251989.
2000US-0251990.
                                                                                                                                                                                                                                     (HUMA-) HUMAN GENOME SCI INC
                                      2000US-0251479.
                                                                                                                                                                     11-DEC-2000; 2000US-0254097.05-JAN-2001; 2001US-0259678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-MAR-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11; Conservative
                                                                                                                                                                                                                                                                                Rosen CA, Barash SC,
                                                                                                                                                                                                                                                                                                                            WPI; 2001-488783/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAS26374
                                    06-DEC-2000;
08-DEC-2000;
08-DEC-2000;
                                                                                                    08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABU55456;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABU55456
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

ä

Human; neural disorder; immune system disorder; renal disorder; muscular disorder; respiratory disease; reproductive disorder; agastrointestinal disorder; pulmonary disorder; cardiovascular disorder; hyperproliferative disorder; inflammatory disease; allergic reaction; blood related disorder; cancer; immunosuppressive; antiinflammatory;

```
The invention relates to human novel polypeptides and their associated polymucleotides. The polypeptides and polymucleotides are useful in gene therapy for treating, inhibiting or preventing neural disorders, immune spetem disorders (e.g. systemic lupus erythematosus, rheumatoid arthritis and multiple sclerosis), muscular disorders, respiratory diseases (e.g. nasal vestibulitis, nasal polyps and sinusitis), reproductive disorders (e.g. congenital heart defects, Ebstein's anomaly and hypoplastic left heart syndrome), renal disorders (e.g. acute kidney failure and end estage renal disease), hyporpoliferative disorders (e.g. Hodgkin's disease and leukaemia), inflammatory diseases (e.g. septic shock, bursitis and appendicitis), allergic reactions and conditions (e.g. asthma), blood related disorders (e.g. thrombosis, atherosclerosis and myocardial infarction) and cancerous diseases. Sequences ABUS4914+ABUS5699 and ABUS5748 represent human novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; immunosuppressive; antiarthritic; antirheumatic; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; cerebroprotective; notropic; notrocic; fundicide; opthalmalogical; vulnerary; secreted protein; rheumatoid arthritis; hyperproliferative disorder; cardiovascular disorder; cardiovascular disorders cerebrovascular disorder; cerebral ischaemia; anglogenesis; nervous system disorder; Alzheimer; glesase; infection; ocular disorder; corneal infection; wound healing; epithelial cell proliferation; skin ageing; food additive; preservative; antiproliferative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
muscular, respiratory, reproductive, gastrointestinal, pulmonary, cardiovascular or renal disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                    3;
                                                                                                                                                                                                                                                                                                                                                                                                              30.1%; Score 56.5; DB 24; Length 103; 39.3%; Pred. No. 4.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                  6
                                                                                                                                                                                                                                                                                                                                                                                                                                                    5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human novel secreted protein, Seg ID 891.
                                                  Claim 11; SEQ ID NO 1340; 402pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 SSHOKPSG---CWOHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 SSHEETPGSHPLYGHGECKWPGCETLCB 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAU15938 standard; Protein; 399 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-2001, 2001WO-US01341.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0184664
2000US-0186350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0198123.
2000US-0205515.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0209467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0189874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0216647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                   Sequence 103 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200155322-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-JUN-2000;
28-JUN-2000;
30-JUN-2000;
07-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-MAR-2000;
16-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-MAR-2000;
18-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAU15938;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAU15938
ID AAU:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
cardiovascular; nephrotropic; cytostatic; antiallergic; thrombolytic; haemostatic; antiarteriosclerotic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides and nucleic acids, useful in gene therapy for treating, inhibiting or preventing e.g. neural, immune system,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Barash SC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-225447P.
2000US-225757P.
2000US-22666BP.
2000US-22666BP.
2000US-22934P.
2000US-229343P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-234223P.
2000US-234274P.
2000US-234997P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-236327P.
2000US-236367P.
2000US-236368P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-239935P.
2000US-240960P.
2000US-241785P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-229345P.
2000US-229509P.
2000US-229513P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-236369P.
                                                                                                                                                      17-JAN-2001; 2001US-0764864
                                                                                                                                                                                                                                                           2000US-216880P
                                                                                                                                                                                                                                                                                                                                                                                   2000US-224519P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-231413P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-DEC-2000; 2000US-251868P
08-DEC-2000; 2000US-251869P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-235834P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rosen CA, Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-147444/14.
N-PSDB; ABX73715.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ROSE/) ROSEN C A.
(RUBE/) RUBEN S M.
(BARA/) BARASH S C
                                                                                     US2002132753-A1.
                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-AUG-2000;
22-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-SEP-2000;
21-SEP-2000;
```

Ĥ

```
2000US-0216880.
2000US-0217487.
2000US-0218290.
2000US-022823.
2000US-0224518.
2000US-0224518.
2000US-0225213.
2000US-0225214.
2000US-0225267.
2000US-0225267.
2000US-0225267.
                                                                                                                                                                                                                                                              2000US-0225757.
2000US-0225759.
2000US-0225759.
2000US-0226279.
2000US-0226681.
2000US-02266868.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-0233064.
2000US-0233065.
2000US-023423.
2000US-0234294.
2000US-0234998.
2000US-0235834.
2000US-0235834.
2000US-0235836.
2000US-0236368.
2000US-0236368.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0236370.
2000US-0236802.
2000US-0237037.
2000US-0237038.
2000US-0237040.
2000US-0239935.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0229509.
2000US-0229513.
2000US-0230438.
2000US-0231242.
2000US-0231243.
2000US-0231244.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-0232080.
2000US-0232081.
2000US-0231968.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0232397.
2000US-0232398.
2000US-0232399.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0232400.
2000US-0232401.
2000US-0233063.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0241786
2000US-0241787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-0239937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0241808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-SEP-2000; 2
25-SEP-2000; 2
25-SEP-2000; 2
26-SEP-2000; 2
27-SEP-2000; 2
                                                14-70L-2000) 26-70L-2000) 26-70L-2000) 26-70L-2000) 214-70C-2000) 214-70C-2000) 214-70C-2000) 214-70C-2000) 214-70C-2000) 22-70C-2000) 22-70C-2000) 22-70C-2000) 22-70C-2000) 22-70C-2000) 23-70C-2000) 22-70C-2000) 23-70C-2000) 21-50C-2000) 
                                                                                                                                                                                                                                                                                                                                                                                                                                      01-SEP-2000;
01-SEP-2000;
05-SEP-2000;
05-SEP-2000;
06-SEP-2000;
06-SEP-2000;
08-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-SEP-2000;
14-SEP-2000;
14-SEP-2000;
21-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SBP-2000;
29-SBP-2000;
29-SBP-2000;
29-SBP-2000;
29-SBP-2000;
20-OCT-2000;
02-OCT-2000;
13-OCT-2000;
13-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
20-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-SEP-2000;
14-SEP-2000;
14-SEP-2000;
14-SEP-2000;
```

```
2000US-0254097
2001US-0259678
20-OCT-2000;
20-OCT-2000;
01-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
                                               08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
08-NOV-2000;
                                                                     08-NOV-2000;
                                                                                      17-NOV-2000;
17-NOV-2000;
                                                                                               17-NOV-2000;
17-NOV-2000;
                                                                                                                 17-NOV-2000;
17-NOV-2000;
                                                                                                                                                                             05-DEC-2000;
05-DEC-2000;
05-DEC-2000;
                                                                                                                                                                                                                      11-DEC-2000;
05-JAN-2001;
                                                                 08-NOV-2000;
                                                                              08-NOV-2000;
                                                                                   17-NOV-2000;
                                                                                                             17-NOV-2000;
                                                                                                                              7-NOV-2000;
                                                                                                                                                    .7-NOV-2000;
                                                                                                                                                                     01-DEC-2000
                                                                                                                          7-NOV-2000
                                                                                                                                           7-NOV-2000
                                                                                                                                               17-NOV-2000
                                                                                                                                                                                           06-DEC-2000
                                                                                                                                                            17-NOV-2000
```

Š (HUMA-) HUMAN GENOME SCI INC. Rosen CA, Barash SC,

WPI; 2001-488783/53. N-PSDB; AAS25925.

New nucleic acid molecules encoding 461 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives -

Claim 11; SEQ ID No 891; 980pp; English.

The invention relates to isolated nucleic acid molecules and their encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used in diagnosing a pathological condition or susceptibility to a pathological condition. Antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked

```
immunosorbant assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. neoplasms of the breast or liver, ardiovascular disorders e.g. orthogonesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection, and many other disorders listed in the specification. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintenian organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as food additive or preservative to increase or decrease storage as a food additive or preservative to increase or decrease storage and inchemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage and other nutritional components. The present since sequence represents an ovel secreted protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        muscular disorder; respiratory disease; reproductive disorder; gastrointestinal disorder; pulmonary disorder; cardiovascular disorder; phyperproliferative disorder; inflammatory disease; allergic reaction; blood related disorder; cancer; immunosuppressive; antiinflammatory; cardiovascular; nephrotropic; cytostatic; antiallergic; thrombolytic;
                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; neural disorder; immune system disorder; renal disorder;
                                                                                                                                                                                                                                                                                                                                        ë.
                                                                                                                                                                                                                                                                                                     DB 22; Length 399;
                                                                                                                                                                                                                                                                                                                                        9; Indela
                                                                                                                                                                                                                                                                                                   ; Score 56.5; DB
; Pred. No. 17;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                        8 SSHOKPSG---CWQHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                              11 SSHEETPGSHPLYGHGECKWPGCETLCE 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABU55007 standard; Protein; 399 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               haemostatic, antiarteriosclerotic
                                                                                                                                                                                                                                                                                                     30.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human novel polypeptide #94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-216880P.
2000US-217487P.
2000US-217496P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-216647P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-218290P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-220964P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-224518P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-225270P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           000US-225447P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-JAN-2001; 2001US-0764864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-229287P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                      11; Conservative
                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-FEB-2000;
28-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU55007;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            888888888888888888888888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

```
The invention relates to human novel polypeptides and their associated polymucleotides. The polypeptides and polymucleotides are useful in gene therapy for treating, inhibiting or preventing neural disorders, immune system disorders (e.g. systemic lugus erythematosus, rheumatoid arthritis and multiple sclerosis), muscular disorders, respiratory diseases (e.g. nasal vestibulitis, nasal polype and sinusitis), reproductive disorders (e.g. congenital heart defects, Ebstein's cardiovascular disorders (e.g. congenital heart defects, Ebstein's cardiovascular disorders (e.g. congenital heart syndrome), renal disorders (e.g. anomaly and hypoplastic left heart syndrome), renal disorders (e.g. kidney failure and end-stage renal disease), hyperproliferative disorders (e.g. Hodgkin's disease and leukaemia), inflammatory diseases (e.g. esptic shock, bursitis and appendicitis), allargic reactions and conditions (e.g. asthma), blood related disorders (e.g. thrombosis, cheroscierosis and myocardial infarction) and cancerous diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides and nucleic acids, useful in gene therapy for treating, inhibiting or preventing e.g. neural, immune system, muscular, respiratory, reproductive, gastrointestinal, pulmonary cardiovascular or renal disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 399;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           o
••
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 17; ; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30.1%; Score 56.5; 39.3%; Pred. No. 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 SSHOKPSG---CWOHISCNFPGCRTLAK 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; SEQ ID NO 891; 402pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polypeptides of the invention.
                                                  2000US-229513P.
2000US-231413P.
2000US-234223P.
2000US-234274P.
2000US-23499PP.
                                                                                                                                                                                           2000US-236370P.
2000US-236802P.
2000US-237037P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barash
                                                                                                                                                                             2000US-236369P
                                                                                                                                                                                                                                                                             2000US-239935P
                                                                                                                                                                                                                                                                                                                                                                                2000US-251868P
                                                                                                                                                                                                                                                                                                                                                                                             2000US-251869P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rosen CA, Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-147444/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                         ROSEN C A.
RUBEN S M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     BARASH S C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   399 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB; ABX73266
                                                                                                                                                                                                                                                                                                                                                                                              08-DEC-2000;
                                                                                                                                                                                                                                                                                                                                   01-NOV-2000:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11
                                                                                                                                                                                                                                                                                                                                                                                                                       (ROSE/)
(RUBE/)
(BARA/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
8
```

```
Human; nucleic acid-associated protein; NAAP-7; neurological disorder; arteriosclerosclerosis; lymphoma; epilepsy; Alzheimer's disease; developmental; anticonvulsant; autoimmune disorder; AlDS; allergy; aremia; stroke; malaria; leishmania; gene therapy; nootropic; neuroprotective; cerebroprotective; virucide; immunosuppressive; protozoacide; antimicrobial.
                                                                    Human nucleic acid-associated protein (NAAP-7).
                                                                                                                                                                                                         /note= "Fork head domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 62; Page 160-161; 193pp; English.
                                                                                                                                                                                     Location/Qualifiers
         AAE25288 standard, Protein, 668 AA
                                                                                                                                                                                                                                                                                                                                                                                   Baughin MR, Lu Y, Arvizu C,
Walia NK, Tribouley KM, Yue
Borowsky ML, Lu DAM, Gandhi
Gietzen KJ, Tang YT, Warren
Lee EA, Yang J, Gorvad AE,
                                                                                                                                                                                                                                                                                                   05-JAN-2001; 2001US-260081P.
16-JAN-2001; 2001US-262302P.
23-JAN-2001; 2001US-263823P.
02-FEB-2001; 2001US-266088P.
                                                                                                                                                                                                                                                                                                                                 02-FEB-2001; 2001US-266088P
29-OCT-2001; 2001US-348442P
                                                                                                                                                                                                                                                                                                                                                                  (INCY-) INCYTE GENOMICS INC.
                                                                                                                                                                                                                                                                     19-DEC-2001; 2001WO-US50256
                                                                                                                                                                                                                                                                                           2000US-257714P
                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                             Yang J, Gorve
                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-519887/55.
N-PSDB; AAD41197.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          668 AA;
                                                                                                                                                                                                                             WO200250279-A2
                                                                                                                                                                                                                                                                                                                                                                                                                              Lee EA, Yang
Swarnakar A,
                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                          21-DEC-2000;
                                               30-OCT-2002
                                                                                                                                                                                                                                                  27-JUN-2002
                             AAE25288;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                               Domain
AAE25288
```

```
Ramkumar J, Yao mc,
H, Batra S, Ding L, Lal PG;
AR, Griffin JA, Xu Y, Azimzai Y;
BA, Mason PM, Burford N, Hafalia AJA;
BA, ''-" BM, Marquis JP, Lee SY;
```

Nucleic acid associated proteins and nucleic acids for diagnosing, treating and preventing cell proliferative (e.g. cancers), neurological (e.g. epilepsy or stroke) or autoimmune disorders (e.g. AIDS) -

The invention relates to nucleic acid-associated proteins (NAAP) and nucleic acids. The nucleic acid and amino acid sequences are useful for diagnosing, treating and preventing cell proliferative e.g. arteriosclerosia, therosclerosis, lymphoma or cancers), neurological (e.g. epileppy, Alzheimer's disease or stroke), developmental, and autoimmune disorders (e.g. AIDS, allergies, or anaemia) or infections (e.g. malaria, or leishmania), as well as in assessing the effects of exogenous compound on the expression of nucleic acid and amino acid sequences of nucleic acid-associated proteins. The invention is useful in gene therapy. The present sequence is human NAAP-7.

```
-
                                        Gaps
                                        3;
/ Match 30.1%; Score 56.5; DB 23; Length 668; Local Similarity 39.3%; Pred. No. 28; see 11; Conservative 5; Mismatches 9; Indels 3.
  Query Match
                                        Matches
```

ö

```
The present sequence is encoded by tumour suppressor gene IB3089A, also known as DBCCRI (Deleted in Bladder Cancer Chromosome Region candidate 1). The gene is located at 9432-33. Although the gene is controlled in several bladder cancer cells. The DBCCRI gene is involved in the development of sporadic cancer, probably by the deletion of one the development of sporadic cancer, probably by the deletion of one alled of the gene and/or hypermethylation of the remaining allele, leading to reduced expression of the gene. DBCCRI nucleic acid sequences are used for treatment or prevention of cancer, particularly bladder, ovarian or skin cancer, squamous carcinoma, renal cell carcinoma or squamous cell oesophageal carcinoma. The DBCCRI protein can be used directly in the same way, or used to raise antibodies and to screen for modulators. The products can be used for diagnosis or prognosis of cancer, or indicate predisposition to cancer (including prenatal testing), particularly where this is associated with loss of heterozygosity at 9432-33. Antibodies may also be used for affinity purification, therapeutically as modulator and to detect the protein in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                 Tumour suppressor gene; IB3089A; DBCCR1; 9q32-33; hypermethylation; Deleted in Bladder Cancer Chromosome Region candidate 1; cancer; bladder cancer; oratian cancer; squamous carcinoma; renal call carcinoma; squamous cell oesophageal carcinoma; prenatal testing; heterozygosity loss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New human gene, DBCCR1, associated with bladder and other cancers used for diagnosis, treatment and prevention of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 55; DB 20; Length 761;
Pred. No. 52;
5; Mismatches 5; Indels
                                                                                                                                                                                                    Protein encoded by tumour suppressor gene IB3089A.
292 SSHEETPGSHPLYGHGECKWPGCETLCE 319
                                                                                                  $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAW70899 standard; Protein; 761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 2; Fig 6; 106pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMKSSHOKPSGCWOHISCNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CURI-) CURIE RES INST MARIE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-GB01515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97GB-0010995
                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 50.0 to 10, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Habuchi T, Knowles M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-070216/06.
N-PSDB; AAV83819.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             761 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                26-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                              WO9854318-A1
                                                                                                                                                                    09-MAR-1999
                                                                                                                                                                                                                                                                                                                                            Bapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                              03-DEC-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cells etc.
                                                                                                                                  AAW70899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                              Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loc
Matches
                                                                   RESULT 11
                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
```

RESULT 12

```
Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in polypeptides. The proteins and diagnosis of medical conditions caused in the treatment, prevention and diagnosis of medical conditions caused by p. acnes. The disorders include SAHDE syndrome (syndrotis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bono, joints and the central nervous system, however it is particularly involved in the inflammatory lessone associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention of ample with a binding agent that binds to the proteins of the invention pelypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to charging the expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by antiper allowed the antipologies and chargined inked immunosotbent assay (Elisa).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Note: The sequence data for this patent did not form part of the printer specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Propionibacterium acnes polypeptides and nucleic acids useful for vaccinating against and diagnosing infections, especially useful for treating acne vulgaris -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mitcham JL, Wang SS, Bhatia A; Jen S, Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28.2%; Score 53; DB 22; 44.1%; Pred. No. 13; ive 3; Mismatches 10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 SCSMKSSHQK----PSGCWQHISCNFP-GCRTL 30
                                                                                dermatological; osteopathic; neuroprotectant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCSICSSLPKLLTPLPSSCWRRIARRIGIGCRWL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; SEQ ID No 3286; 1069pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human liver peptide, SEQ ID No 31897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABG53249 standard; Peptide; 20 AA
                                                                                                                                                                                                                                                                                                                            21-APR-2000; 2000US-199047P.
02-JUN-2000; 2000US-208841P.
07-JUL-2000; 2000US-216747P.
                                                                                                                                                                                                                                                                                20-APR-2001; 2001WO-US12865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Persing DH, M
e J, Zhang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-FEB-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 44.1
nes 15; Conservative
                                                                                                                               Propionibacterium acnes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-616774/71.
N-PSDB; AASS9516.
                                                                                                                                                                                                                                                                                                                                                                                                                              (CORI-) CORIXA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   105 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L'maisonneuve J,
                                                                                                                                                                             WO200181581-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Skeiky YAW,
                                                                                                                                                                                                                              01-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABG53249;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expressed in multiple tissues but is often down-regulated or silenced in bladder cancer cells due to hypermethylation. The DBCCR1 protein has cytostatic activity. The present sequence and the DBCCR1 promoter can be used in the diagnostic, prophylactic and therapeutic treatment of cancer, especially that which is associated with loss of heterozygosity involving 9q32-33. The cancer includes bladder cancer, squamous carcinoma, skin cancer, renal cell carcinoma, oesophageal and ovarian cancers.
                                                                                                                                                                                                                       Human; tumour suppressor; IB3089A; cytostatic; promoter; Deleted in Bladder Cancer Chromosome Region candidate 1; DBCCR1; diagnostic; prophylactic; therapeutic treatment; cancer; skin; loss of heterozygosity; LOH; bladder; squamous carcinoma; renal cell; oesophageal; ovarian; chromosome 9q32-33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            useful for identifying a predisposition to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is a tumour suppressor protein 183089A, also referred as DBCR1 for Deleted in Bladder Cancer Chromosome Region candidate 1. The protein is obtained from a CDNA whose major portion is derived from a clone (TexpsporyAt2270) isolated from a gridded human foetal brain cDNA library. The DBCCR1 gene was found to be localised at 9932-33 chromosomal region between D951848 and AFWA239XA9. It is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 55; DB 21; Length 761; Pred. No. 52;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Propionibacterium acnes immunogenic protein #2987.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                             Human tumour suppressor protein IB3089A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (IMCR ) IMPERIAL CANCER RES TECHNOLOGY.
                               AAY44704 standard; Protein; 761 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer or the presence of a tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Fig 6; 101pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMKSSHOKPSGCWOHISCNF 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAU42091 standard; Protein; 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SVQPSHQEPAGTDQHVSKEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-GB01958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              promoter sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Knowles M, Habuchi T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-171014/15.
N-PSDB; AAZ49891.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   761 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200001816-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                               02-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-JAN-2000.
```

Novel

7

Gaps

9

Indels

101

Length 105;

Sequence

AAU42091;

AAU42091 ID AAU XX AC AAU XX DT 27-XX DE Proj

13

셤 ઠ

RESULT 13

of the printed

```
1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a single exon mucleic acid probe (SENP) (I) for measuring human gene expression in a sample derived from human adult liver, comprising one of 13109 defined nucleotide sequences given in the specification (or complements) fragments). The probe hybridises at high stringency to a nucleic acid molecule expressed in the human adult liver. (I) may be used for predicting, measuring and displaying gene expression in samples derived from human adult liver. The genes identified may be involved in genetic liver diseases such as cirrhosis, hyperlippoproteinaemia, hyperlipidaemia and hypercholesterolaemia which human liver single exon encoded peptides of the invention.

Note: The sequence information for this patent does not appear in the printed specification but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; foetal liver; gene expression; single exon nucleic acid probe.
Human; liver; cirrhosis; hyperlipoproteinaemia; hyperlipidaemia;
hypercholesterolaemia; coronary heart disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human genome-derived single exon nucleic acid probes useful for analysing gene expression in human adult liver -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide #5932 encoded by human foetal liver single exon probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 52; DB 22; Length 20;
Pred. No. 3.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 27; SEQ ID No 31897; 658pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chen W, Rank DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10 HOKPSGCWQHISCNFPGCRTL 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 HOKLSRRWCHASCT--ACRTM 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABB38426 standard; Peptide; 20 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MOLE-) MOLECULAR DYNAMICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27.7%;
                                                                                                                                                                                                                                                                                                                                                                             26-MAY-2000; 2000US-0207456.
30-JUN-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
                                                                                                                                                                                                                                                                               30-JAN-2001; 2001WO-US00664
                                                                                                                                                                                                                                                                                                                                                2000US-0180312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 52.44
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hanzel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-488898/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 AA;
                                                                                                                                                        WO200157273-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200157277-A2
                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                04-FEB-2000;
                                                                                                                                                                                                                     09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Penn SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABB38426;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABB38426
IID ABB3
XX AC ABB3
XX DDT 04-F
XX XX Huma
XX Huma
XX Huma
XX YOO HOMO
XX HOMO
XX HOMO
XX HOMO
XX HOMO
XX HOMO
DD HOMO
XX HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOMO
DD HOM
ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           윰
```

1

```
ä
                                                                                                                                                                                                                                                                                                                                                            The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a peptide encoded by a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                               Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5;
                                                                                                                                                                                                                                                                                                                             Claim 27; SEQ ID NO 31061; 639pp + sequence listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
27.7%; Score 52; DB 2
Best Local Similarity 52.4%; Pred. No. 3.4;
Matches 11; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: December 12, 2003, 12:25:34
Job time : 9.13559 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 HQKPSGCWQHISCNFPGCRTL 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 HOKLSRRWCHASCT--ACRTM 19
                                                                                                                                                                                                                                            WPI; 2001-483447/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

Rank DR

Chen W,

Hanzel DK,

Penn SG,

(MOLE-) MOLECULAR DYNAMICS INC

26-MAY-2000; 2000US-0207456. 30-UIN-2000; 2000US-0608408. 03-AUG-2000; 2000US-0632366. 21-SEP-2000; 2000US-0234687. 27-SEP-2000; 2000US-0234587. 04-OCT-2000; 2000GB-0024263.

30-JAN-2001; 2001WO-US00669

2000US-0180312

04-FEB-2000;

Q8cg10 mus musculu Q8cis1 mus musculu Q9dby0 mus musculu

Q8CIS1 Q9DBY0 000504

O00504 homo sapien O8012x0 homo sapien O8012x0 homo sapien O812x0 homo sapien O812x0 homo sapien O8028 mus musculu O8028 mus musculu O59338 desulfovibr O95xx5 mus musculu O95xx5 mus musculu O95xx5 homo sapien O42455 raja eglant O91638 xenopus lae O42124 gallus gall O8141 lycoperaico O4233 arabidopsis O8433 lycoperaico O4533 arabidopsis O8087 symbiont ba O96x87 symbiont ba O96x84 srabidopsis O91ucl arabidopsis O99ucl arabidopsis O99x64 arabidopsis

Q8N2XO Q8R475 Q8RQN2 Q8NQN8 Q8NQN8 Q8NQN3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q9CXXV3 Q8CXXV3 Q8CXXV3 Q8CXXV3 Q8CXXV3 Q8CXXV3 Q8CXXV3 Q8CXXV3 Q8CXV3 ``
SEQUENCE FROM N.A.
MEDLINE=21286455; PubMed=11390454;
MEDLINE=21286455; PubMed=11390454;
Dichenko S.V., Izotova L.S., Mirochnitchenko O.V., Esterova E.,
Dickensheete H., Donnelly R.P., Pestka S.;
"Identification, cloning, and characterization of a novel soluble receptor that binds II-22 and neutralizes its activity.";
J. Imwunol. 166:7096-7103(2001).
EMBL; AJ313162; CAC88535.1; -.
EMBL; AY040567; AAK85715.1; -.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
 SECUENCE FROM N.A.
TISSUB=Placenta;
MEDLINE=21518574; PubMed=11607789;
Gruenberg B.H., Schoenemeyer A., Weiss B., Toschi L., Kunz S.,
Wolk K., Asadullah K., Sabat R.;
"A novel, soluble homologue of the human IL-10 receptor with
preferential expression in placenta.";
Genes Immun. 2:329-334(2001).
 01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Soluble cytokine class II receptor, long isoform precursor (Interleukin 22-binding protein CRF2-10L).
 Genew, HGNC:14901; IL22RA2.
InterPro; IPR000282; Cytok_receptor_2.
Receptor; Signal.
1 21 POTENTIAL
 PRELIMINARY;
 628
995
1031
242
313
397
 467
720
8601
330
 21
263
50.5
50.5
 096935
 RESULT 1
 POTT SERVICE S
 Q8b121 latino viru
Q8b116 latino viru
Q9cx78 pasteurella
Q9cap5 homo sapien
Q81w55 homo sapien
Q81v2 homo sapien
Q81v2 homo sapien
Q81v3 qiardia lam
 0925t8 rattus norv
060477 homo sapien
090xf6 brachydanio
091768 desulfovibr
 Q8wu22 homo sapien
 Q969j5 homo sapien
 Q8cxsl leptospira
Q14230 homo sapien
 December 12, 2003, 12:22:23 ; Search time 6.61695 Seconds (without alignments) 1247.959 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
 Description
 830525
 GenCore version 5.1.6
(c) 1993 - 2003 Compugen Ltd.
 1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
 Total number of hits satisfying chosen parameters:
 830525 segs, 258052604 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 OM protein - protein search, using sw model
 US-10-047-264A-4_COPY_67_98
 4 014230
12 08B116
12 08B116
16 09CK78
4 09CK78
4 08IW55
4 08IW55
4 08IW56
4 08WX56
11 0925T8
 Q969JS
Q8CXS1
 sp_invertebrate:*
sp_mammal:*
sp_nhc:*
sp_organelle:*
sp_plage:*
sp_plant:*
sp_rodent:*
sp_rodent:*
sp_vartebrate:*
sp_vartebrate:*
sp_vartebrate:*
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 sp_rvirus:*
sp_bacteriap:*
 sp_archea:*
sp_bacteria:*
sp_fungi:*
sp_human:*
 Minimum DB seq length: 0 Maximum DB seq length: 20000000000
 sp_archeap:
 Length DB
 SPTREMBL 23:*
 Copyright
 Query
 2299.33
 Scoring table:
 Perfect score:
 Score
 Seguence:
 Searched:
 Database
 Run on:
 0.42010084010
 Result
 Š
```

263 AA

PRT;

ALIGNMENTS

POTENTIAL. SOLUBLE CYTOKINE CLASS II RECEPTOR, LONG ISOFORM.

```
01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, 01)-coproptein precursor.
 01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23,
 PRELIMINARY;
 PRELIMINARY;
 PRELIMINARY;
 Glycoprotein precursor
 Local Similarity
Les 10; Conserv
 SEQUENCE FROM N.A
 SEQUENCE FROM N.A.
 Latino virus
 01-JUN-2001
01-MAR-2003
 09CK78;
01-JUN-2001
 219
 Query Match
 Q8B121
Q8B121;
 Q8B116
 09CK78
 Best Loca
Matches
 RESULT 4
 RESULT 5
 RESULT 6
 Q9CK78
 SORTHARANCOS
 요
 셤
 BARRAR
 8
 ò
 1;
 ö
 ô
 Gaps
 Gaps
 Gaps
 MEDLINE=92194452; PubMed=1548756;
Horwitz M.S., Boyce-Jacino M.T., Faras A.J.;
"Novel human endogenous sequences related to human immunodeficiency
virus type 1.";
J. Virol. 66:2170-2179(1992).
 Leptospira interrogans.
Bacteria; Spirochaetes; Spirochaetales; Leptospiraceae; Leptospira.
NCBL_TaxID=173;
 Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
 ä
 ö
 ö
 Length 263;
 31.6%; Score 59.5; DB 4; Length 54; 52.2%; Pred. No. 0.19; ive 0; Mismatches 8; Indel8
 Query Match 32.4%; Score 61; DB 16; Length 367; Best Local Similarity 40.0%; Pred. No. 0.74; Matches 10; Conservative 5; Mismatches 10; Indels
 SEQUENCE FROM N.A.
STRAIN=56601./ Serogroup Icterohaemorrhagiae / Serovar lai,
 Indels
 Ren S.;
Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
BMBL; AE011475; AANS0326.1; -.
Complete proteome.
SEQUENCE 367 AA; 42467 MW; CICIAAS9DDF69785 CRC64;
C96ECEC5D78AC79B CRC64;
 54 AA; 6440 MW; AA56AF67667B3214 CRC64;
 Last sequence update)
Last annotation update)
 100.0%; Score 188; DB 4;
100.0%; Pred. No. 1.4e-19;
ive 0; Mismatches 0;
 67 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 98
 1 MFSCSMKSSHOKPSGCWOHISCNFPGCRTLAK 32
 367 AA
 277 ISSCHQCGAKCDRHVNCENPGCHVL 301
 6 MKSSHQKPSGCWQHISCNFPGCRTL 30
 Created)
 11 OKPSGCWOH---ISCNFPGCRTL 30
 10 gapsecwonsrccscrirectli 32
 PRT;
 PRT;
263 AA; 30550 MW;
 EMBL; M86246; AAA58451.1; -. NON TER 1 1 1 SEQUENCE 54 AA; 6440 MW;
 01-NOV-1996 (TrEMBLrel, 01, 01-NOV-1996 (TrEMBLrel, 01, 01-DEC-2001 (TrEMBLrel, 19,
 31.63
Best Local Similarity 52.23
Matches 12, Conservative
 EHS-2 protein (Fragment).
EHS-2.
 Conservative
 PRELIMINARY;
 PRELIMINARY;
 Local Similarity
les 32; Conserv
 SEQUENCE FROM N.A.
SEQUENCE
 Query Match
 QBCXS1
QBCXS1;
 014230;
 Matches
 RESULT 2
086CXS1
1D 086CX
AC 086CX
AC 086CX
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT 01-M
DT
 င္တ
 g
 ద
 8
 ઠ
```

```
7
 Gaps
 Gaps
 STRAIN=MARU 10924;
MEDLINE=22197098; PubMed=12207889;
Charrel R.N., Feldmann H., Fulhorst C.F., Khelifa R., de Chesse R.,
de Lamballerie X.;
"Phylogeny of New World arenaviruses based on the complete coding
sequences of the small genomic segment identified an evolutionary
lineage produced by intrasegmental recombination.";
lineage produced by intrasegmental recombination.";
Biochem. Biophys. Res. Commun. 296:1118-1124 (2002).

EMBL, AFS12830; AAN32959.1; -.
SEQUENCE 515 AA; 59222 MW; AA247F14123831B1 CRC64;
 from the
 Viruses, ssRNA negative-strand viruses, Arenaviridae, Arenavirus.
NCBI_TaxID=45221;
 Viruses; ssRNA negative-strand viruses; Arenaviridae; Arenavirus
NCBI_TaxID=45221;
 7;
 7;
 31.1%; Score 58.5; DB 12; Length 515; conservative 3; Mismarcha-
 Ouery Match
31.1%; Score 58.5; DB 12; Length 515;
Best Local Similarity 40.0%; Pred. No. 2.4;
Matches 10; Conservative 3; Mismatches 5; Indels 7;
 STRAIN=Maru 10924;
Archer A.M., Rico-Hesse R.;
"High Genetic Divergence and Recombination in Arenaviruses
 to the EMBL/GenBank/DDBJ databases
 Americas.";
Submitted (FEB-2002) to the EWBL/GenBank/DDBJ databases
EMBL; AF485259; AAN09940.1; -
SEQUENCE 515 AA; 59232 MW; 9A247EC412383128 CRC64;
 Last sequence update)
Last annotation update)
 Last sequence update)
Last annotation update)
 Last sequence update)
Last annotation update)
 515 AA
 515 AA.
 206 AA.
 219 COMOSDH-----OHIKCNYSNCK 236
 COMOSDH-----QHIKCNYSNCK 236
 4 CSMKSSHQKPSGCWQHISCNFPGCR 28
 4 CSMKSSHQKPSGCWQHISCNFPGCR 28
 (TrEMBLrel. 17, Created)
(TrEMBLrel. 17, Last seq
(TrEMBLrel. 23, Last ann
 Created)
 Created)
PRT;
 PRT;
 PRT;
```

ä

```
NCBI_TaxID=9606;
 Eukaryota, Diplo
NCBI_TaxID=5741;
 NCBI_TaxID=9606
 Q8IVH2
 Q818V3
 RESULT 9
 a
 ሯ
 ò
 ;;
 ä
 Gaps
 MEDLINE=21145866; PubMed=11248100;
May B.J., Zhang Q., Li L.L., Paustian M.L., Whittam T.S., Kapur V.;
"Complete genomic sequence of Pasteurella multocida Pm70.";
Proc. Natl. Acad. Sci. U.S.A. 98:3460-3465(2001).

EMBL; AE006212; AAK03839.1;
HSSP; P00195; ICLE
InterPro; IPR001450; 4F48; ferredoxin.
InterPro; IPR001450; 4F48; ferredoxin.
Pfam; PP00037; fer41; 3.
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
 11;
 <u>ب</u>
 Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;
Pasteurellaceae; Pasteurella.
 30.6%; Score 57.5; DB 16; Length 206; 42.9%; Pred. No. 1.4; ive 2; Mismatches 3; Indels 11
 Length 383;
 Production of the control of the con
 9; Indels
 Strausberg R.;
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; BCO16874; APH16874.1; -.
InterPro; IPR001766; TF Fork head.
InterPro; IPR007067; Znf C2H2.
 383 AA; 42084 MW; 838CD68181AE2CCB CRC64;
 206 AA; 22901 MW; F3FE2DC10936EBFF CRC64;
 01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DAR-2003 (TrEMBLrel. 23, Last annotation update)
01-OPD (Treatment of transpection)
Homo seatlens (Human).
 Query Match
30.1%; Score 56.5; DB 4;
Best Local Similarity 39.3%; Pred. No. 3.5;
Matches 11; Conservative 5; Mismatches 9;
 383 AA
 8 SSHQKPSG---CWQHISCNFPGCRTLAK 32
 11 QKPSGCWQH-----ISCNF---PGC 27
 PROSITE; PS00198; 4FE4S PERREDOXIN; 1.
PROSITE; PS00190; CYTOCHROME_C; 2.
 24 SSHEETPGSHPLYGHGECKWPGCETLCE
 PRT;
 Local Similarity 42.9
hes 12, Conservative
 PRELIMINARY;
 Pasteurella multocida
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 Complete proteome SEQUENCE 206 AA
 NCBI_TaxID=9606;
 NCBI TaxID=747;
 STRAIN=Pm70
 rissum=Lung
 SEQUENCE
 Query Match
 096AP5
 Matches
 GOOS NA REPRENTED DR REPRENTED
 ሯ
 셤
```

RESULT 8

```
ä
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 SEQUENCE FROM N.A.
Daigo Y., Takayama I., Fujino M.A.;
Isolation, mapping, and characterization of a novel human cDNA differentially expressed in the fundus of W/Wv mutant mice.";
Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; ABO80747; BACS3809.1;
SEQUENCE 680 AA; 73488 MW; A63826ED85B24752 CRC64;
 3;
 3,
 Query Match 30.1%; Score 56.5; DB 4; Length 680; Best Local Similarity 39.3%; Pred. No. 6.1; Matches 11; Conservative 5; Mismatches 9; Indels
 DB 4; Length 667;
 01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Variant-specific surface protein ASIO.
Glardia lamblia (Glardia intestinalis).
Bukaryota, Diplomonadida, Hexamitidae, Glardiinae, Glardia.
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Butel
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo
 Indels
 Strausberg R.;
Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC040962; AAH40962.1; -
SEQUENCE 667 AA; 72216 MW; 41ED0AP8996FE17F CRC64;
 01-MAR-2003 (TIEMBLIE). 23, Last sequence update) 01-MAR-2003 (TIEMBLIE). 23, Last annotation update) Similar to RIKEN cDNA 1200010K03 gene. Homo sapiens (Human).
 01-MAR-2003 (TrEMBLrel. 23, Created)
1-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Fork head-related protein like A.
667 AA
 742 AA
 680 AA
 Ouery Match
30.1%; Score 56.5; D
Best Local Similarity 39.3%; Pred. No. 6;
Matches 11; Conservative 5; Mismatches
 292 ŚŚHEETPĠSHPLYGHGEĊKWPĠĊETLCE 319
 291 SSHEETPGSHPLYGHGECKWPGCETLCE 318
 8 SSHQKPSG---CWQHISCNFPGCRTLAK 32
 8 SSHOKPSG---CWOHISCNFPGCRTLAK 32
 Created)
 PRT;
 PRT;
 PRELIMINARY;
 PRELIMINARY;
PRELIMINARY;
 Homo sapiens (Human)
 SEQUENCE FROM N.A.
TISSUE=Skin;
 [1]
SEQUENCE FROM N.A.
STRAIN=WB;
 RESULT 10
(9818V3
1D Q818V.
AC Q818V.
DT 01-MAD
DT 01-MAD
DE Varian
OC Glard
OC NACBI
```

STRTRS

```
MEDLINE=98207242; PubMed=9545632;
Habuchi T., Luscombe M., Elder P.A., Knowles M.A.;
"Structure and methylation-based silencing of a gene (DBCCR1) within a
candidate bladder cancer tumor suppressor region at 9q32-q33.";
Genomics 48:277-288(1998).
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 Asari M.;
"Identification and characterization of BRINP, a BMP/retinoic acid-
 Matsuoka I., Nakatani T., Kawano H., Kobayashi M., Abe A., Arai N.,
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 Query Match 29.3%; Score 55; DB 11; Length 760; Best Local Similarity 50.0%; Pred. No. 11; Matches 10; Conservative 5; Mismatches 5; Indels
 'Match 29.3%; Score 55; DB 4; Length 761; Local Similarity 50.0%; Pred. No. 11; les 10; Conservative 5; Mismatches 5; Indels
 inducible neural-specific protein."; Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases
 EMBL, AB051356, BAB55642.1; ...
InterPro, IPR001862; MAC_perforin.
SWART; SM00457; MACPP; 1.
SEQUENCE 760 AA; 88654 MW; 22A30B493BC265D3 CRC64;
 EMBL; AF027734; AAC39691.1; -.
Genew; HGNC:2688; DBCCR1.
InterPro; IPR001862; MAC_perforin.
SEMATT; SW0457; MACPF; 1.
SEQUENCE 761 AA; 88790 MW; 59E1B2B3231353E5 CRC64;
 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) 01-MAR-2003 (TrEMBLrel. 23, Last annotation update) BMP/retinoic acid-inducible neural-specific protein
 01-AUG-1998 (TrEMBLrel. 07, Created)
01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 760 AA
 761 AA
 Created)
 PRT;
 PRT;
 |:: |||:|:| ||:| |
19 SVQPSHQEPAGTDQHVSKEF 38
 24
 5 SMKSSHOKPSGCWOHISCNF 24
 5 SMKSSHQKPSGCWQHISCNF 24
 SMKSSHOKPSGCWOHISCNF
 01-DEC-2001 (TrEMBLrel. 19, 01-DEC-2001 (TrEMBLrel. 19, 01-MAR-2003 (TrEMBLrel. 23,
 PRELIMINARY;
 PRELIMINARY;
 Rattus norvegicus (Rat)
 Homo sapiens (Human).
 [1]
SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 NCBI_TaxID=10116;
 NCBI_TaxID=9606;
 TISSUE-Brain;
 Query Match
 IB3089A.
 IB3089A
 060477;
 Q925T8
 060477
 Best Loc
Matches
 RESULT 13
 RESULT 14
 Q925T8
 060477
 요
 ACCOUNT THE POLICE OF THE POLI
 à
 à
 ï
 ö
 ö
 Gaps
 Gaps
 Gaps
Slavin I., Touz M.C., Lujan H.D.;
"Control of antigenic variation in Giardia lamblia is mediated by antisense RNA-based silencing system.";
Submitted (WG-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AY142139; AAN52113.1; -.
SEQUENCE 742 AA; 76679 MW; 94F5EA914EEE465D CRC64;
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606,
 Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
 | | : |: || || : : | || 329 SCPLNSNEEKTSGVCECVEGYVPEEAGTGCMKKSDPPAAPCNTPGCKTCSE 379
 01-MAR-2002 (TrEMBLrel. 20, Created)
01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Similar to deleted in bladder cancer chromosome region candidate
 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
BA2804.1 (Deleted in bladder cancer chromosome region candidate
 3 SCSMKSSHOKPSGCWQHIS-----CNFPGCRTLAK 32
 21;
 ö
 ö
 Query Match
30.1%; Score 56.5; DB 5; Length 742;
Best Local Similarity 23.5%; Pred. No. 6.6;
Matches 12; Conservative 8; Mismatches 10; Indels 2:
 Ouery Match 29.3%; Score 55; DB 4; Length 320; Best Local Similarity 50.0%; Pred. No. 4.9; Matches 10; Conservative 5; Mismatches 5; Indels
 4; Length 228;
 5; Indels
 Babbage A.;
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AL138994; CAD13302.1; -.
NON TER 228 228 228
 Strausberg R.;
Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC021560; AH21560.1; -.
Interpro; IRRO10862; MAC_perforin.
SWART; SM00457; NACPP; 1.
SRQUENCE 320 AA; 37168 MW; 216A4CB3D764C5C3 CRC64;
 320 AA.
 228 AA
 Score 55; DB (
Pred. No. 3.5;
 5; Mismatches
 Created)
 PRT;
 PRT;
 |::|||:|:| ||:| | svopshoepagtdonusker 38
 SMKSSHQKPSGCWQHISCNF 24
 29.3%;
 01-MAR-2002 (TrEMBLrel. 20, 01-MAR-2002 (TrEMBLrel, 20,
 10; Conservative
 PRELIMINARY;
 PRELIMINARY;
 (IB3089A)) (Fragment)
 (Human)
 Local Similarity
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 NCBI_TaxID=9606;
 TISSUE=Kidney;
 Homo sapiens
 Ŋ
 13
 Query Match
 08WX56;
 Q8WX56
 DBCCR1
 Q8WU22
 RESULT 12
08MU22
AC Q8WU22
AC Q8WU2
DT 01-MA
DT 01-MA
DT 01-MA
DT 01-MA
DE Simil
DE Simil
DE NO CC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUKAR
OC BUK
 Matches
 RESULT 11
```

셤 ઠે

셤

ò

ö

ô

Gaps

ô

```
MEDLINE=21521131; PubMed=11641225;

A Tallatius A., Wilm T.P., Crozatier M., Pfeffer P., Wassef M.,
A Tallatius A., Wilm T.P., Crozatier M., Pfeffer P., Wassef M.,
Bally-Cuif L.;
The zebrafish buttonhead-like factor Bts1 is an early regulator of
pax2.1 expression during mid-hindbrain development.";
Development 12814021-4034 (2001).
EMBL; AF388363; AAK83353.;
InterPro; IPR007087; Zif C2H2.
RP Fam; PR000063; Zif C2H2.
RP ProDom; PD000003; Zif C2H2.3.
RP ROSITE; PS00155; Zin C2H2.3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_1; 3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_2; 3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_2; 3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_2; 3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_2; 3.
RP ROSITE; PS00157; ZINC_FINGER_C2H2_2; 3.
 Brachydanio rerio (Zebrafish) (Danio rerio).

Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Actinopterygii, Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae, Danio.

NCBI_TaxID=7955;
 1; Gaps
 Query Match

29.0%; Score 54.5; DB 13; Length 367;
Best Local Similarity 44.0%; Pred. No. 6.6;
Matches 11; Conservative 3; Mismatches 10; Indels 1.
 01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Zinc finger buttonhead-related transcription factor 1.
 367 AA.
 PRT;
 PRELIMINARY;
 Q90XF6
Q90XF6;
RESULT 15
090XF6
10 090XF
AC 090XF
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 01-DE
DT 0
```

Search completed: December 12, 2003, 12:27:22 Job time : 8.61695 secs

> g ò

ï

g

19 SVQPSHQEPAGTDQHVSKEF 38

```
Q8cxel leptospira
Q03740 mus musculu
P04342 mus musculu
P10067 rattus norv
P2699 mus musculu
P0528 rattus norv
P10068 rattus norv
Q9u57 conus glori
Q95477 cenororhabdi
Q28785 papio sp. (
Q2816 cercopithec
P34611 cenorhabdi
P2819 papio sp. (
Q2816 cercopithec
P34611 cenorhabdi
P2819 papio sp. (
Q2826 cenopus lae
P2879 percupus lae
P2879 percupus lae
P2879 granulins
Q9y63 homo sapien
O42275 electrophor
P25429 gallus gall
P26420 gallus gall
P26420 cen mays (m
 homo sapien
electrophor
gallus gall
mus musculu
zea mays (m
zea mays (m
drosophila
 December 12, 2003, 12:16:38 ; Search time 2.06102 Seconds (without allgoments) 730.151 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
 1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
 Total number of hits satisfying chosen parameters:
 127863 segs, 47026705 residues
 TV28 LEPIN
CRGF MOUSE
CRGD RAT
CRGE MUSE
CRGGE RAT
CRGE RAT
CRGF RAT
CRGF CONGI
VICAS CONGI
VICAS CONGI
VICAS CONTI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA CONGI
CRSA
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 OM protein - protein search, using sw model
 US-10-047-264A-4_COPY_67_98
 BLOSUM62
Gapop 10.0°, Gapext 0.5
 Minimum DB seq length: 0
Maximum DB seq length: 200000000
 %
Query
Match Length DB
 SwissProt_41:*
 Title:
Perfect score:
 Scoring table:
 61
51
51
51
51
51
51
64
69
 Score
 47.5
47.5
47.5
 Seguence:
 Searched:
 Database
 Run on:
 Result
 Š.
```

| Q05895 mus musculu P03115 semliki for P08491 ross river Q16527 acdes acgyp O05083 haemophilus Q63514 rattus norv P03083 polyomaviru Q07394 rhodbacter O42506 fugu rubrip P89116 spodoptera Q82q23 salmonella | TS         | 67 AA.<br>date)                                                       | st annotation update)<br>128.<br>Spirochaetales; Leptospiraceae; Leptospira. | er                                                                                                                | Miao YG., Xu H., Jiang HQ., Jia J., Tu YF., Z., Sheng HH., Yin HF.,, Qian Z., Wang SY., Ma W., -C., Guo XK., Danchin A., -M., Shi MH., Chen Z.,                                                                                                                          | Leptospira<br>";                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DP69785 CRC64;                                                                                                                                                                                                 | DB 1; Length 367;<br>0.69;<br>ches 10; Indels 0; Gaps 0;                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| TSP3 MOUSE<br>POLS SFV<br>POLS RRVI<br>VITT AEBDAB<br>YOS98 HAEIN<br>C4BP RAT<br>KASM POVJC<br>RNYB RHOCA<br>HXA9 FUGAU<br>ICEL SPOFR<br>RE14 SCHPO<br>YCEA SALTY                                            | ALIGNMENTS | PRT; 3                                                                | annotation u<br>rochaetales;                                                 | terohaemorrhi<br>712204;                                                                                          | 3., Zeng R., ., Lu LF., g YQ., Cai Huang HL -Q., Xia Q.                                                                                                                                                                                                                  | athogenic feale-genome sec<br>THE UPF0176 I                                         | yright. It as of Bioinfoo<br>Institute.<br>Itions as lor<br>is not remov<br>agreement ((s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                | 61;<br>NO.<br>Smatc<br>30                                                           |
| .5 1254 11.5 1254 11.5 1254 11.5 1254 11.5 1254 11.5 1254 11.5 1254 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11                                                                                                    |            | STANDARD;<br>(Rel. 42, Creat:<br>(Rel. 42, Last                       | 32 · ·                                                                       | V.A.<br>Serogroup Ici                                                                                             | iong H., Lu G<br>WY., Zhang<br>WY., Zhang<br>Y., Qiang B<br>Y., Somerville                                                                                                                                                                                               | logical and paralled by who. 893 (2003). BELONGS TO Contains 1                      | entry is copies Institute coinformatics of it institute is statement es a license les a license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con license con li | AAN50326.1;<br>9; -; 1.<br>Rhodanese; 1.<br>; RHOD; 1.<br>96; RHODANESE 3<br>cctein; Complet<br>253<br>AA; 42467 MW;                                                                                           | 32.4%; Score imilarity 40.0%; Pred. ); Conservative 5; Mi MKSSHQKPSGCWQHISCNFPGCRTL |
| 44444444444444444444444444444444444444                                                                                                                                                                       |            | LEPIN<br>1;<br>P-2003<br>P-2003                                       | 5-SEP-2003 ( Ypothetical A3128. eptospira in acteria; Spi                    | [1] —<br>SEQUENCE FROM N.A.<br>STRAIN=56601 / Serogroup Icterohaemorrhagiae<br>MEDLINE=22598143; PubMed=12712204; | Ren SX., Fu G., Jiang XG., Zeng R., Miao YZhang YX., Xiong H., Lu G., Lu LF., Jiang H. Jiang JA., Gu WnY., Zhang YO., Cai Z., Sher Zhang Y., Zhu GF., Wan M., Huang HL., Qian Z Yao ZJ., Shen Y., Qiang BQ., Xia QC., Guo Saint Girons I., Somerville R.L., Wen YM., Shi | u vG., Zudo<br>Unique physio.<br>nterrogans rev<br>ature 422:888.<br> - SIMILARITY: | This SWISS-PROT entry is copyright. It is produced between the Swiss Institute of Bioinformatics and the European Bioinformatics Institute. There are ruse by non-profit institutions as long as its quodified and this statement is not removed. Usage entities requires a license agreement (See http://or send an email to license@isb-sib.ch).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EMBL; AE011475; AAN50326.1; HAWAP, MF 00469; -; 1. Pfam; PF00581; Rhodanese; 1. SWART; SM00450; RHOD; 1. PROSITE; PS50206; RHODANESE 3 Hypothetical protein; Complet DOMAIN 159 253 SEQUENCE 367 AA; 42467 MW; | Match Socal Sis 10                                                                  |
|                                                                                                                                                                                                              |            | RESULT 1<br>YV28 LEPIN<br>ID YV28<br>AC Q8CXS<br>DT 15-SE<br>DT 15-SE | •                                                                            | RR RP R                                                                                                           | 48 48 48 48 48 48 48 48 48 48 48 48 48 4                                                                                                                                                                                                                                 |                                                                                     | 38888888888                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                | Query M<br>Best Lo<br>Matches<br>Qy<br>Db                                           |

RESULT 2

rattus norv homo sapien

gallus gall sinapis alb

44 . . 44444 . . . 44444

saccharomyc arabidopsis o'nyong-nyo drosophila

Q9vy28 Q04347 P38605 P22056 P13709 P38729 Q98938

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isp-sib.ch).
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
 MEDLINE=85088487, PubMed=6096855, Breitman M.L., Lok S., Wistow G., Piatigorsky J., Treton J.A., Gold R.J.M., Tsui L.-C., L.C., "Gamma-crystallin family of the mouse lens: structural and "Gamma-crystallin family of the
 -!- SIMILARITY: BELONGS TO THE BETA/GAMMA-CRYSTALLIN FAMILY
 evolutionary relationships.";
Proc. Natl. Acad. Sci. U.S.A. 81:7762-7766(1984)
15-SEP-2003 (Rel. 42, Last annotation update)
 Gamma crystallin D (Gamma crystallin 1)
 MEDLINE=99000834; PubMed=9782080;
 MGD; MGI:88524; Crygd.
InterPro; IPR001064; Crystallin.
Pfam; PF00030; crystall; 2.
 PRINTS; PR01367; BGCRYSTALLIN.
 20877 MW;
 EMBL; K02583; AAA37475.1; -.
 AJ224342; CAA11908.1;
 SEQUENCE OF 3-104 FROM N.A.
 Conservative
 39
83
86
127
173
 Mus musculus (Mouse).
 PIR, A02932; CYMSG1.
 173 AA;
 Local Similarity
wes 12; Conserv
 SEQUENCE FROM N.A.
 STRAIN=102 X C3H;
 NCBI_TaxID=10090;
 SEQUENCE
 Query Match
 DOMAIN
 DOMAIN
 Matches
 RESULT 4
 SO THE THE TERM SEE THE SEE TH
 a
 ò
 This SWISS-FROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch)
 5
 SEQUENCE FROM N.A.
STRAIN=CD-1; TISSUE-Eye;
MEDLINE=92324352; PubMed=1623964;
Goring D.R., Breitman M.L., Tsui L.-C.;
"Temporal regulation of six crystallin transcripts during mouse lens development.";
 Gaps
 EYE RES. 54:785-795 (1992).
FUNCTION: CRYSTALLINS ARE THE DOMINANT STRUCTURAL COMPONENTS OF THE VERTEBRATE EYE LENS.
DEVELOPMENTAL STAGE: IN THE EMBRYO, EXPRESSED BY DAY 12 OF GESTATION. MAXIMUM LEVELS ARE FOUND AT DAY 30-40 FOLLOWED BY A RAPID DECLINE.
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
 12;
 DOMAIN: HAS, A TWO-DOMAIN BETA-STRUCTURE, FOLDED INTO FOUR
 VERY SIMILAR GREEK KBY MOTIFS.
--- MISCELLANBOUG: THERE ARE SIX DIFFERENT GAMMA CRYSTALLINS IDENTIFIED IN MOUSE LENS.
--- SIMILARITY: BELONGS TO THE BETA/GAMMA-CRYSTALLIN FAMILY.
 Query Match 27.1%; Score 51; DB 1; Length 158; Best Local Similarity 30.8%; Pred. No. 6.2; Matches 12; Conservative 5; Mismatches 10; Indels
 158
19339 MW; DD2DB2807404410A CRC64;
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 16 YECSTDHSNLOPYFSRCNSVRVDSGCWMLYEQPNPAGCQ 54
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
 01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
16-CCT-2001 (Rel. 40, Last annotation update)
Gamma crystallin F (Fragment).
 PRINTS; FANDO247; XTALDG; 2.
SMART; SM00247; XTALDG; 2.
BYOSTTE; PS00225; CRYSTALLIN BETAGAMWA; 3.
Eye lens protein; Multigene Family; Repeat.
By SIMILARITY.
 158 AA
 P04342; 089027;
20-MAR-1987 (Rel. 04, Created)
20-MAR-1987 (Rel. 04, Last sequence update)
 PRT;
 MGD; MGI:88526; Crygf.
InterPro; IPR001064; Crystallin.
Pfam; PF00030; crystall; 2.
PRINTS; PR01367; BGCRYSTALLIN.
 EMBL, M64543; AAA53525.1; -. PIR, 149618, 149618.
HSSP; P02528; 1A5D.
 STANDARD;
 STANDARD;
 Mus musculus (Mouse)
 158 AA;
 NCBI_TaxID=10090;
 CRGF MOUSE
 CRGD MOUSE
 NON TER
SEQUENCE
 RESULT 3
CRGD MOUSE
ID CRGD M(
AC P04342
DT 20-MAR
 DOMAIN
 DOMAIN
 DOMAIN
```

```
7
 Gaps
 12;
 Score 51; DB 1, Length 173;
Pred. No. 6.8;
 27.1%; Score or, 30.8%; Pred. No. 6.8; or, ive 5; Mismatches 10; Indels
 -> R (IN REF. 2).
E33755FBE9636969 CRC64;
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 16 YECSTDHSNLOPYFSHCNSVRVDSGCWMLYEQPNFAGCQ 54
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
MOTIF 3.
 Ź
SMART; SM00247; XTALbg; 2.
PROSITE; PS00225; CRYSTALLIN BETAGAMMA; 4.
Eye lens protein; Multigene Family; Repeat.
 PRT,
 STANDARD;
 CRGD_RAT
```

ò 셤 173 AA.

PRT;

STANDARD;

```
CRGE MOUSE
P26999;
 RESULT 5
CRGE_MOUSE
 a
 ò
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
 Rattus norvegicus (Rat).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
 SEQUENCE FROM N.A. MEDLINE=87060933, PubMed=3783678, den Dunnen J.T., Moormann R.J.M., Lubsen N.H., Schoenmakers J.G.G.; "Concerted and divergent evolution within the rat gamma-crystallin
 STRAIN=Sprague-Dawley, TISSUE=Lens,
MEDLINE=95151850, PubMed=7849105,
Ooki K., Amuro N., Shimizu Y., Okazaki T.,
"High level expression of rat gamma-D-crystallin in Escherichia
 MEDIANE=90236314; PubMed=1970548; den Dunnen J.T., van Neck J.W., Cremers F.P.M., Lubsen N.H. Schoenmakers J.G.G.; Isolation and characterization of the rat glutamine synthetase-encoding gene."; Gene 87:225-232(1990).
 27.1%; Score 51; DB 1; Length 173; 30.8%; Pred. No. 6.8;
 930B2D42D80F4117 CRC64;
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
MOTIF 3.
 01-MDR-1989 (Rel. 10, Created)
01-MDR-1989 (Rel. 10, Last sequence update)
10-SEP-2003 (Rel. 42, Last annotation update)
Gamma crystallin D (Gamma crystallin 2-2).
 InterPro; IPRO01064; Crystallin.
Pfam; PR00030; crystall; 2.
PRINTS; PR01367; BGCRYSTALLIN.
SMART; SM00247; XTALBG; 2.
PROSITE; PS00225; CRYSTALLIN BETAGAMA; 4.
Eye lens protein; Multigene Family; Repeat.
INIT MBT
 20972 MW;
 Mol. Biol. 189:37-46(1986).
 EMBL; M19359; AAA40984.1; -. EMBL; X57169; CAA40458.1; -. PIR; D24060; D24060. HSSP; P02528; 1A5D.
 84
87
128
173 AA;
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 NCBI_TaxID=10116;
 family.";
 SEQUENCE
 Query Match
 DOMAIN
 DOMAIN
 DOMAIN
 DOMAIN
 gene
 8
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the BMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
 7
 Gaps
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
 Gene 104:265-270(1991).
-!- FUNCTION: CYSTALLINS ARE THE DOMINANT STRUCTURAL COMPONENTS
- OF THE VERTEBRATE EXE LENS.
-!- DOMAIN: HAS A TWO-DOMAIN BETA-STRUCTURE, FOLDED INTO FOUR
 12;
 -!- MISCELLANEOUS: THERE ARE SIX DIFFERENT GAMMA CRYSTALLINS IDENTIFIED IN MOUSE LENS.
 -!- SIMILARITY: BELONGS TO THE BETA/GAMMA-CRYSTALLIN FAMILY
 Score 51, DB 1; Length 173;
Pred. No. 6.8;
5; Mismatches 10; Indels
 SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN= (101/E1XC3H/E1)F1; TISSUE=Liver;
MEDLINE=92009223; PubMed=1916296;
Graw J., Coban L., Liebstein A., Werner T.;
"Murine gamma B-crystallin is distinct from murine gamma
 E17410F82B3C39AE CRC64;
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 16 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYQQPNFTGCQ 54
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
MOTIF 3.
01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
 (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 42, Last annotation update)
 173 AA
 SMART; SM00247; XTALbg; 2.
PROSITE; PS00225; CRYSTALLIN BETAGAMMA; 4.
Eye lens protein; Multigene Family; Repeat.
1 39 MOTIF 1.
 VERY SIMILAR GREEK KEY MOTIFS.
 PIR; S26811; S26811.
HSSP; P02528; 1A5D.
MGD; MGI:88525; Cryge.
InterPro; IPR001064; Crystallin.
Pfam; PF00030; crystall; 2.
PRINTS; PR01367; BGCRYSTALLIN.
 21093 MW;
 EMBL; X57855; CAA40990.1; -.
 30.88;
 27.18;
 Best Local Similarity 30.8
Matches 12; Conservative
 STANDARD;
 Mus musculus (Mouse)
 128 1
173 AA;
 Gamma crystallin E.
 NCBI TaxID=10090;
 2-crystallin.";
 21-JUL-1986 (
21-JUL-1986 (
15-SEP-2003 (
 CRGE RAT P02528;
 SEQUENCE
 Query Match
 CRGE RAT
 RESULT 6
 84555
```

5

Gaps

12;

10; Indels

5; Mismatches Pred. No

30.8%;

Local Similarity

Best Loca Matches

8 셤

12; Conservative

```
CRGF_RAT
ID CRGF_RAT
AC P10068;
 STRAND
 Query Match
 DOMAIN
DOMAIN
STRAND
TURN
 STRAND
STRAND
HELIX
 STRAND
HELIX
STRAND
 STRAND
 STRAND
 STRAND
 STRAND
 DOMAIN
 DOMAIN
 STRAND
 STRAND
 STRAND
 STRAND
 HELIX
 HELIX
 TURN
 TORN
 RESULT 7
 g
 à
 X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
SPECIES=Rat; TISSUE=Lens;
MEDLINE=98035705; PubMed=9367641;
Norledge B.V., Hay R.E., Bateman O.A., Slingsby C., Driessen H.P.C.;
"Towards a molecular understanding of phase separation in the lens: a comparison of the X-ray structures of two high Tc gamma-crystallins, gammaE and gammaE, with two low Tc gamma-crystallins,
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID=10116; 10090;
 SPECIES=Rat;
MEDLINE=81091061; PubMed=6294661;
MOOTMADN R.J.M., den Dunnen J.T., Bloemendal H.,
Schoenmakers J.G.G.;
"Extensive intragenic sequence homology in two distinct rat lens
"Extensive intragenic sequence homology in two distinct rat lens
gamma-crystallin cDNAs suggests duplications of a primordial gene.";
Proc. Natl. Acad. Sci. U.S.A. 79:6876-6880(1982).
 SPECIES=Mouse; TISSUB=Lens; MEDLINE=86284663; PubMed=3837188; Lok S., Breitman M.L., Chepelinsky A.B., Piatigorsky J., Lok S., Tsui L.C.; L.C.; Lok S.J. Tsui L.C.; Tsui L.C.; "Lens-specific promoter activity of a mouse gamma-crystallin gene."; Mol. Cell. Biol. 5:2221-2230(1985).
 MISCELLANEOUS: THE TWO SEQUENCES SEEM IDENTICAL. WHAT IS KNOWN GAMMA-E IN RAT IS CALLED GAMMA-2 IN MOUSE. THERE IS ANOTHER GAMMA-E SEQUENCE IN MOUSE. SEQUENCE IN MOUSE. SIMILARITY: BELONGS TO THE BETA/GAMMA-CRYSTALLIN FAMILY.
 MEDLINE=84114867; PubMed=6319707;
Moormann R.J.M., den Dunnen J.T., Mulleners L., Andreoli P.,
Bloemendal H., Schoenmakers J.G.G.;
"Strict co-linearity of genetic and protein folding domains in an intragenically duplicated rat lens gamma-crystallin gene.";
J. Mol. Biol. 171:353-368(1983).
 EXP. E9 Reg. 65:609-610(1997).

-!- FUNCTION: CRYSTALLINS ARE THE DOMINANT STRUCTURAL COMPONENTS OF THE VERTEBRATE EVE LENS.

-!- DOMAIN: HAS A TWO-DOMAIN BETA-STRUCTURE, FOLDED INTO FOUR VERY SIMILAR GREEK KEY MOTIFS.

-!- MISCELLANBOUS: THERE ARE AT LEAST SEVEN DIFFERENT GAMMA CRYSTALLINS IDENTIFIED IN MOUSE LENS.

-!- MISCELLANBOUS: THERE ARE SIX DIFFERENT GAMMA CRYSTALLINS IDENTIFIED IN RAT LENS.
 SPECIES=Mouse;
MEDLINE=8508843; PubMed=6096855;
MEDLINE=8508487; PubMed=6096855;
Breitman M.L. Lok S., Wistow G., Piatigorsky J., Treton J.A.,
Gold R.J.M., Tsui L.-C.;
Gold R.J.M., Tsui L.-C.;
Gold R.J.M., Tsui L.-C.;
Gondand F. L. C.,
Formal Family of the mouse lens: structural and
evolutionary relationships.";
Proc. Natl. Acad. Sci. U.S.A. 81:7762-7766(1984).
 den Dunnen J.T., van Neck J.W., Cremers F.P.M., Lubsen N.H., Schoenmakers J.G.G.; "Isolation and characterization of the rat glutamine
crystallin E (Gamma crystallin 3-1) (Gamma-2).
 MEDLINE=90236314; PubMed=1970548;
 Rattus norvegicus (Rat), and Mus musculus (Mouse).
 synthetase-encoding gene.";
Gene 87:225-232(1990).
 SEQUENCE OF 1-68 FROM N.A.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 SPECIES=Rat
 SPECIES=Rat;
 gammaD.";
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its was by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
 5
 Gaps
 12;
 PIR; A02930; CYRTG1.

PIR; A02931; CYMSG2.

PIR; 156381; 155381.

PIR; 156381; 155381.

PIR; 156381; 155381.

PER; PROJO50; 1798711; 2.

PRINTS; PROJO50; 17987411; 2.

PRINTS; PROJO57; MEGRYSTALLIN.

SMART; SMO0247; XTALB9; 2.

PROSITE; PSO0225; CRYSTALLIN BETAGAMMA; 4.

Bye lens protein; Multigene Family; Repeat; 3D-structure.

INIT MET 0 0 MOTIF 1.
 Length 173;
 10; Indels
 21132 MW; 3F3200E85CB61B02 CRC64;
 58
 16 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 54
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
MOTIF 3.
 2 PSCSMKSSHQKP-----SGCWQ-HISCNFPGCR
 27.1%; Score 51; DB 1; ilarity 30.8%; Pred. No. 6.8; Conservative 5; Mismatches 10
 (Rel. 10, Created)
(Rel. 10, Last sequence update)
(Rel. 42, Last annotation update)
 173 AA
 EMBL; M19359; AAA40985.1; -.. EMBL; J00716; AAA40997.1; -.. EMBL; X00271; CAA25073.1; -.. EMBL; K02584; AAA03228.1; -.. EMBL; M11039; AAA03227.1; -..
 STANDARD;
 39
83
·86
127
173
 104
108
1127
135
145
 165 1
173 AA;
 Best Local Similarity
Matches 12, Conserv
 01-MAR-1989 (
01-MAR-1989 (
15-SEP-2003 (
 44484
```

```
Conoidea; Conidae; Conus.
 NCBI_TaxID=37336;
 D-structure.
 PEPTIDE
DISULFID
 DISULFID
MOD_RES
 DISULPID
 SEQUENCE
 Query Match
 SIGNAL
 RESULT 9
YKKA_CAEEL
 Matches
 PAC SERVICE SE
 ò
 g
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its mose by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
 ..
7
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 Gaps
 MEDLINE-87060933; PubMed=3783678; den Dunnen J.T., Moormann R.J.M., Lubsen N.H., Schoenmakers J.G.G.; "Concerted and divergent evolution within the rat gamma-crystallin
 BYNTHACTABE-encoding gene.";
Gene 87:225-232(1990).
-!- FUNCTION: CRYSTALLINS ARE THE DOMINANT STRUCTURAL COMPONENTS
OF THE VERTEBRATE EYE LENS.
-!- DOMAIN: HAS A TWO-DOMAIN BETA-STRUCTURE, FOLDED INTO FOUR VERY SIMILAR GREEK KEY MOTIFS.
-!- MISCELLANBOUS: THERE ARE SIX DIFFERENT GAMMA CRYSTALLINS
 Spasmodic protein tx9a-like protein precursor (Conotoxin Gm9.1). Conus gloriamaris (Glory of the sea). Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda; Apogastropoda; Sorbeoconcha; Hypsogastropoda;
 12;
 MEDLINE=90236314; PubMed=1970548;
den Dunnen J.T., van Neck J.W., Cremers F.P.M., Lubsen N.H.,
 IDENTIFIED IN RAT LENS.
-!- SIMILARITY: BELONGS TO THE BETA/GAMMA-CRYSTALLIN FAMILY.
 Score 51; DB 1; Length 173; Pred. No. 6.8; 5; Mismatches 10; Indel8
 40E63B99F75600BD CRC64;
 "Isolation and characterization of the rat glutamine
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 MOTIF 1.
MOTIF 2.
CONNECTING PEPTIDE.
 (Rel. 41, Last sequence update)
(Rel. 42, Last annotation update)
 88 AA
 InterPro; IPR001064; Crystallin.
Pfam; PF00030; crystall; 2.
PRINTS; PR01367; BGCRYSTALLIN.
SMART; SM00247; XTALLG; 2.
PR0SITE; PS00225; CRYSTALLIN BETAGAMAA; 4.
Eye lens protein; Multigene Family; Repeat.
INIT_MET
 crystallin F (Gamma crystallin 4-1).
 MOTIF 3.
MOTIF 4.
 PRT;
 39 MC
83 MC
86 CC
127 MO
173 MO
21210 MW;
 gene family.";
J. Mol. Biol. 189:37-46(1986)
 28-FEB-2003 (Rel. 41, Created)
 EMBL; M19357; AAA40988.1; -.
 27.18;
 30.8%;
 12; Conservative
 STANDARD;
 Schoenmakers J.G.G.;
 E24060; E24060.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 HSSP; P02528; 1A5D
 Local Similarity
 NCBI_TaxID=10116;
 28-FEB-2003
15-SEP-2003
 CX9A CONGL
 SEQUENCE
 Query Match
 DOMAIN
 DOMAIN
 DOMAIN
 CX9A_CONGL

ID _CX9A_CC

AC _Q9GU57,

Q9GU57,

Q
 DOMAIN
 Matches
ઠે
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch).
 SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

STATIS-Entecl N.Z.

WHISTON R., Alnscough R., Anderson K., Baynes C., Berks M.,

Wilson R., Alnscough R., Anderson K., Frasts M.,

Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Coulson A.,

Craxton M., Dear S., Du Z., Durbin R., Favello A., Frasts A.,

Anton L., Gardner A., Green P., Hawkins T., Hillier L., Jier M.,

Johnston L., Jones M., Kershaw J., Kirsten J., Laisster N.,

Latreille P., Lightning J., Lloyd C., Mortinore B., O'Callaghan M.,

Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen R.,

Sulston J., Thierry-Mieg J., Thomas K., Vaudin M., Vaughan K.,

Waterston R., Watson A., Weinstock L., Wilkinson-Sproat J.,
 Lirazan M.B., Hooper D., Corpuz G.P., Ramilo C.A., Bandyopadhyay P., Cruz L.J., Olivera B.M.; "The spaemodic peptide defines a new conotoxin superfamily."; Biochemistry 39:1563-1568(2000)
 Gaps

PIOCHMILELY 39:13001430014000.
PUNCTION: Not known. Has only been studied at nucleotidic level.
SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: Expressed by the venom duct.
SIMILARITY: BELONGS TO THE P-SUPERFAMILY OF CONOTOXINS.

 Bukaryota, Metazoa, Nematoda, Chromadorea, Rhabditida, Rhabditoidea,
Rhabditidae, Peloderinae, Caenorhabditis.
NCBI_TaxID=6239,
 PROBABLE.
AMIDATION (G-88 PROVIDE AMIDE GROUP)
 SPASMODIC PROTEIN TX9A-LIKE PROTEIN
 ö
 PDB; 1IXT; 28-JAN-03.
Toxin; Signal; Amidation; Cleavage on pair of basic residues;
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Hypothetical zinc finger protein CO2F5.12 in chromosome III.
 Score 50; DB 1; Length 88; Pred. No. 4.9:
 12; Indels
 C82818A55CBC44E7 CRC64;
 4.9;
 266 AA.
 1; Mismatches
 (PROBABLE)
 PROBABLE
 PROBABLE
 5 SMKSSHQKPSGCWQHISCNFPGC 27
 61 SCNNSCÓSHSDCASHCICTFRGC 83
 PRT;
SEQUENCE FROM N.A.
MEDLINE=20143473; PubMed=10677206
 EMBL; AF193511; AAG28407.1; -.
 1 Similarity 43.5%;
10; Conservative
 9687 MW;
 26.68;
 YKKA_CAEEL STANDARD;
 27
60
87
76
78
83
 Caenorhabditis elegans
 Best Local Similarity
 88 AA;
```

ö

SO THE BRANCH SO COCOCCE SERVING SO THE SERVING SO COCOCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC COCCC CO

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce) or send an email to license@isb-sib.ch).

 -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By

 CD59 GLYCOPROTEIN.
REMOVED IN MATURE FORM (BY SIMILARITY).
 MEDLINE-95104908; PubMed=7528724; Sedor W.L., Rollins S.A., Blanco-Caron S., Burton W.V., Gulins S.A., Blanco-Caron S., Burton W.V., Guilmette E.R., Rocher R.P., Zavoico G.B., Squinto S.P.; "Primate terminal complement inhibitor homologues of human CD59."; Immunogeneetics 41.51-51(1995).
-i- PUNCTION: POTENT INHIBITOR OF THE COMPLEMENT MEMBRANE ATTACK COMPLEX (MAC) ACTION, ACTS AT OR AFTER THE C58-8 STAGE OF MAC
 Cercopithecus aethiops (Green monkey) (Grivet).
Bukaryota, Metazoa, Chordata, Graniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Cercopithecidae,
Cercopithecinae, Cercopithecus.
 01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
CDS9 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (Protectin).
 UPAR/LY6.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
N-LINKED (GLCHY.
CPI-ANCHOR (BY SIMILARITY).
 Score 49; DB 1; Length 126;
 7900FF937871EBDC CRC64;
 HSSP; P13987; 1CDS.
HSSP; P13987; 1CDS.
InterPro; IPR003532; Ly-6 CD59.
InterPro; IPR001256; Ly-6 CD59.
InterPro; IPR0013128; Ly-6 CD59; I.
ProDom; PD003128; Ly-6 CD59; I.
SWART; SM00134; Ly 1.
RROSITE; PS00983; LX6 UPAR; I.
Antigen; Glycoprotein; GPI-anchor; Signal.
 128 AA.
 Pred. No. 9.2;
 similarity).
-!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
 send an email to license@isb-sib.ch)
 PRT;
 13716 MW;
 16 CWQHISCNFPGCRTLAK 32
 80
 EMBL; 122862; AAA74127.1; -. PIR; 136914; 136914.
 26.1%;
 64 CWKFANCNFNDISTLLK
 8; Conservative
 STANDARD;
 1100
1126
106
106
64
88
88
94
94
 Local Similarity
 SEQUENCE FROM N.A.
 NCBI_TaxID=9534;
 ASSEMBLY.
 CD59 CERAE
Q28216;
 DISULPID
DISULPID
DISULPID
 DISULFID
 DISULFID
 CARBOHYD
 SEQUENCE
 Query Match
 CHAIN
PROPEP
 DOMAIN
 RESULT 11
CD59_CERAE
 Matches
 8
 ద
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch).
 1;
 SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
 Gaps
 PROSITE; PS00028; ZĪNC FINGER C2H2 1; 1.
PROSITE; PS50157; ZINC_FINGER_C2H2_2; FALSE NEG.
Hypothetical protein; Zinc; Metal-Dinding; Zinc-finger; DNA-binding;
 MEDLINE=95104908; PubMed=7528724; Padot W.L., Rollins S.A., Blanco-Caron S., Burton W.V., Guilmette E.R., Rother R.P., Zavoico G.B., Squinto S.P.; Primate terminal complement inhibitor homologues of human CD59."; Immunogenetics 41.51-51(1995).
-i- FUNCTION: POTENT INHIBITOR OF THE COMPLEMENT MEMBRANE ATTACK COMPLEX (MAC) ACTION. ACTS AT OR AFTER THE C5B-8 STAGE OF MAC
 Papio sp. (Baboon).
Whkaryota, Metazos, Chordata; Craniata, Vertebrata; Euteleostomi,
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Papio.
"2.2 Mb of contiguous nucleotide sequence from chromosome III of
 01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last amoutation update)
CDS9 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (Protectin)
 ŝ
 DB 1; Length 266;
 4; Indels
 Waterston R.;
Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
 157 180 C2H2-TYPE.
266 AA; 29989 MW; 8293081EDD0D00DB CRC64;
 -1- SUBCELLULAR LOCATION: Nuclear (Potential).
-1- SIMILARITY: Contains 1 C2H2-type zinc finger.
 126 AA.
 26.3%; Score 49.5; I
45.5%; Pred. No. 16;
tive 3; Mismatches
 similarity).
-!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
 LESSHAN----YVITCNFPGC 130
 6 MKSSHQKPSGCWQHISCNFPGC 27
 EMBL, L14745; AAK71355.1; -.
Wormbep; CO257.12; CB26744.
InterPro; IPR007087; Znf_C2H2.
SMART; SM00355; ZnP_C2H2; 2.
 Local Similarity 45.5
tes 10; Conservative
 STANDARD;
 Nature 368:32-38(1994)
 SEQUENCE PROM N.A.
 NCBI_TaxID=61183;
 Nuclear protein.
 CD59 PAPSP .
 REVISIONS
 SEQUENCE
 Query Match
```

RESULT 10 CD59\_PAPSP

윤

ठ

EMBL; L22863; AAA74126.1; -. PIR; I36894; I36894.

This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its muse by non-profit institutions as long a sits content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/

ö

ö

. .) (POTENTIAL)

PROPEP LIPID

HAIN

OR CHARLES OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR CORRESPONDED OR

DOMAIN

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
 (5S RNA) TRANSCRIPTION.
SUBCELLULAR LOCATION: Cytoplasmic.
SIBGELLULAR LOCATION: Cytoplasmic.
SIBGELLULAR LOCATION: Cytoplasmic.
AUD ABSENT FROM LARGE CELLS IN WHICH NUCLEOLI ARE ABSENT,
DEVELOPMENTAL STAGE: ABUNDANT IN EARLY EMBRYOS CELLS AND THEN
RAPIDLY DIMINISHES DURING DEVELOPMENT.
 MEDLIRE=20143473; PubMed=10677206; MEDLIRE=20143473; PubMed=10677206; Lirazan M.B., Hooper D., Corpuz G.P., Ramilo C.A., Bandyopadhyay P., Cruz L.J., Ollvera B.M.; Electron B.M.; The spasmodic peptide defines a new conotoxin superfamily."; Biochemistry 39:1583-1588 (2000).

-1-FUNCTION: Intracranial injection into mice of 10 pmol/g of the peptide induces running in circles and hyperactivity. At higher doses (50 pmol/g), the mice exhibit running and climbing symptoms for close to one hour. Between 130 and 150 pmol/g, characteristic "spasmodic" symptomatology is elicited. A hand climbing symptomic jump high and start running rapidly. When exposed to a loud hand clap, or if the cage cover were dropped, the mice lose motor
 TRANSCRIPTION FACTOR TO INHIBIT RNA POLYMERASE I (RRNA) AND III
 191 SASSTSSHÖVPSLGGKQSPDSMMLGSGKRSVLČLQHRASELVFFCVSČNLAIČR 244
 3 SCSMKSSHQKPS-----ISCNFPGCR
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Spasmodic peptide tx9a precursor (Pi-conotoxin TxIXA).
Conus textile (Cloth-of-gold cone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
Apogastropoda; Caenogastropoda; Corbeoconcha; Hypsogastropoda;
Neogastropoda; Conoidea; Conidae; Conus.
 SEQUENCE FROM N.A., SEQUENCE OF 61-87, AND MASS SPECTROMETRY
 Score 49; DB 1; Length 851;
Pred. No. 53;
1; Mismatches 9; Indels
 166FDC4623AE494C CRC64;
 COILED COIL (POTENTIAL). POLY-SER.
 -1- SIMILARITY: Contains 2 B box-type zinc fingers.
 SMART; SM00355; ELC..., PROX; 2.
PROSITE; PS50119; ZF_BBOX; 2.
Zinc-finger; Repeat; Metal-binding; Coiled coil, ZN FING 127 174 B BOX-TYPE 1.
361 B BOX-TYPE 1.
 88 AA.
 PRT;
 PIR, S44890, S44890.
WormPep; ZK112.2; CE00373.
InterPro; IPR003649; Bbox.C.
InterPro; IPR001258; NHL.
Pfam; PF01436; NKIL; 5.
Pfam; PF01643; zf-Bbox; 2.
 EMBL; AF047027; AAC14263.1; -.
 91954 MW;
 26.1%;
 29.64;
 L14324; AAA28185.1;
 Query Match
Best Local Similarity 29.6
Matches 16; Conservative
 STANDARD;
 261
336
194
 SMART; SM00502; BBC; 1
SMART; SM00336; BBOX;
 851 AA;
 NCBI_TaxID=6494;
 rissum=venom;
 CX9A CONTE
 SEQUENCE
 DOMAIN
 EMBL;
 g
 ò
 ö
 Nature 368:32-38(1994).

-!- FUNCTION: INVOLVED IN THE REGULATION OF RIBOSOMAL RNA SYNTHESIS

AND CELL GROWTH. MAY BE AN INHIBITOR OF THE LEVEL OF BIOSYNTHETIC

ACTIVITY WITHIN A CELL BY REPRESSING THE PRODUCTION OF RIBOSOMES,

AND THUS THE CAPACITY FOR PROTEIN SYNTHESIS. MIGHT ACT DIRECTLY AS
 Gaps
 Wilson R., Ainscough R., Anderson K., Baynes C., Berks M., Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Coulson A., Craxton M., Dear S., Du Z., Durbin R., Favello A., Fraser A., Fulton L., Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L., Jones M., Kershaw J., Kirsten J., Laisster N., Laterille P., Lightning J., Lloyd C., Mortimore B., O'Callaghan M., Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen R. Sims M., Smaldon N., Smith M., Sonnhammer E., Staden R., Salston J., Thierry-Mieg J., Thomas K., Vaudin M., Vaughan K.,
 Bukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
 Frank D.J., Roth M.B.;
"Nol-1 is required for the regulation of cell size and ribosomal RNA synthesis in caenorhabditis elegans.";
J. Cell Biol. 140:1321-1329(1998).
 REMOVED IN MATURE FORM (BY SIMILARITY).
GPI-ANCHOR (BY SIMILARITY).
UPAR/LY6.
 "2.2 Mb of contiguous nucleotide sequence from chromosome III of C.
 -LINKED (GLCNAC. . .) (POTENTIAL).
9778DEF7F7F05152 CRC64;
 SEQUENCE FROM N.A., POSSIBLE FUNCTION, AND SUBCELLULAR LOCATION STRAIN-Bristol N2;
 ö
 Naterston R., Watson A., Weinstock L., Wilkinson-Sproat J.,
 Score 49; DB 1; Length 128
 7; Indels
 CD59 GLYCOPROTEIN.
 N-LINKED (GLCNAC.
 16-OCT-2001 (Rel. 40, Last sequence update)
28-PRB-2003 (Rel. 41, Last annotation update)
Box type zinc-finger protein ncl-1.
NCL-1 OR ZK112.2.
HSSP, P13987, 1CDS.
InterPro; IPR003632; Ly-6 CD59.
InterPro; IPR001526; LY6 UPAR.
FERM; PP00021; UPAR LY6; 1.
ProDom, PD003128; Ly-6 CD59; 1.
SWART; SW00134; LU; 1.
PROSITE; PS00983; LV5 UPAR; 1.
AREGING; Glycoprotein; GF-anchor; Signal.
SIGNAL.
1 25 BY SIMILARITY.
 BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
 851 AA
 2; Mismatches
 BY SIMILARITY
 Pred. No.
 PRT;
 MEDLINE=94150718; PubMed=7906398;
 MEDLINE=98177161; PubMed=9508766;
 14007 MW;
 (Rel. 28, Created)
 16 CWQHISCNFPGCRTLAK 32
 [|: :||| | | | CWKFANCNFNDISTLLK 80
 26.1%;
 47.18;
 Conservative
 STANDARD;
 Caenorhabditis elegans.
 A)
 Local Similarity
 SEQUENCE FROM N.A. STRAIN=Bristol N2;
 Wohldman P.;
 01-FEB-1994
 .;
8
 NCL1 CAEBL
 DISULFID
 elegans.";
 64
 DISULPID
 DISULFID
 DISULPID
 CARBOHYD
 SEQUENCE
 Query Match
```

P34611;

[2]

RESULT 12 NCL1\_CAEEL

Best Loc Matches

ò 셤 . 7

Gaps

28;

```
Zinc-finger;
ZN FING
 ZN_FING
ZN_FING
ZN_FING
ZN_FING
ZN_FING
 SEQUENCE
 Query Match
 RESULT 15
 GRN_HUMAN
 ઠ
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the Suropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstains the European Bioinformatics Institute are no restrictions on its use by non-profit institutions as long as its content is in no way
 ö
 pmol/g)
 Gaps
 SUBUNIT: THE 42S RNP PARTICLE COMPRISES FOUR SUBUNITS EACH OF WHICH CONTAINS ONE MOLECULE OF 5S RNA, THREE MOLECULES OF TRNA, TWO MOLECULES OF P50 (EF1-ALPHA) AND ONE MOLECULE OF THE 5S RNA BINDING PROTEIN 43.
control and exhibit seizure-like symptoms from which they eventually recover. At the highest doses tested (over 250 pmol/affect the characteristic spasmodic Symptomatology, lethality occurs. Injection of a similar dose range intramuscularly into Siamese fighting fish elicited no unusual symptomatology.

-I SUBCELULIAR LOCATION: Secreted.
-I TISSUE SPECIFICITY: Expressed by the venom duct.
-I MASS SPECIFICITY: MF=2955.0; METHOD=Electrospray.
-I SIMILARITY: BELONGS TO THE P-SUPERFAMILY OF CONOTOXINS.
 01-MAY-1992 (Rel. 22, Created)
01-MAY-1992 (Rel. 22, Last sequence update)
15-SBP-2003 (Rel. 42, Last annotation update)
15-SBP-2003 (Rel. 42, Past annotation update)
Xenopus laevis (African clawed frog).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
 GAMMA-CARBOXYGLUTAMIC ACID.
GAMMA-CARBOXYGLUTAMIC ACID.
AMIDATION (G-88 PROVIDE AMIDE GROUP)
6CS02E42A6C89E87 CRC64;
 Toxin; Signal; Amidation; Vitamin K; Gamma-carboxyglutamic acid; Cleavage on pair of basic residues. SIGNAL 1 27 POTENTIAL.
 ö
 FUNCTION: P43 IS A 5S RNA BINDING PROTEIN WHICH IS A MAJOR CONSTITUENT OF COCYTES AND COMPRISES PART OF A 42S RIBONUCLEOPROTEIN STORAGE PARTICLE.
 SEQUENCE FROM N.A.
MEDLINE=90235278; PubMed=2331751;
Joho K.E., Darby M.K., Crawford E.T., Brown D.D.;
"A finger protein structurally similar to TFIIIA that binds exclusively to 55 RNA in Xenopus.";
Cell 61:293-300(1990).
 ; DB 1; Length 88; 8.9;
 Indels
 SPASMODIC PEPTIDE TX9A
 365 AA
 2; Mismatches
 25.5%; Score 48; 45.0%; Pred. No.
 or send an email to license@isb-sib.ch)
 PROBABLE.
 PROBABLE.
 PROBABLE
 PROBABLE
 SSHOKPSGCWOHISCNFPGC 27
 64 NSCÓEHSDCESHCICTFRGC 83
 EMBL; AF193510; AAG28406.1; -.
 9773 MW;
 9; Conservative
 STANDARD;
 Xenopodinae, Xenopus.
 Similarity
 88 AA;
 NCBI_TaxID=8355;
 P43 XENLA
P25456;
 DISULPID
DISULFID
DISULFID
 æ
 Query Match
Best Local
 SEQÜENCE
 Local
 PEPTIDE
 MOD RES
 PROPEP
 Matches
 셤
```

```
ъ.
this statement is not removed. Usage by and for commercial
lires a license agreement (See http://www.isb-sib.ch/announce/
 PRT; 593 AA.

P28799; P23781; P23783; P23784; Q9BWB7;

P28799; P23781; P23783; P23784; Q9BWB7;

O1-NOV-1991 (Rel. 20, Created)

O1-DEC-1992 (Rel. 24, Last sequence update)

Granulins precursor (Acrogranin) [Contains: Paragranulin; Granulin 1 (Granulin G); Granulin 2 (Granulin P); Granulin 3 (Granulin B); Granulin B); Granulin A); Granulin B);

Granulin 4 (Granulin A); Granulin E) (Granulin C); Granulin G) (Granulin D);

D); Granulin 7 (Granulin B)].
 Plowman G.D., Green I.M., Neubauer M.G., Buckley S.D., McDonald V.L., Todaro G.J., Shoyab M.; "The epithelin precursor encodes two proteins with opposing activities
 Gaps
 TISSUE=Bone marrow;
MEDLINE=92179233; PubMed=1542665;
MEDLINE=92179233; PubMed=1542665;
Bhandari V., Palfree R.G.E., Bateman A.;
Isolation and sequence of the granulin precursor cDNA from human bone marrow reveals tandem cysteine-rich granulin domains.";
Proc. Natl. Acad. Sci. U.S.A. 89:1715-1719(1992).
 "Structure and chromosomal location of the human granulin gene."; Blochem. Blophys. Res. Commun. 188:57-63(1992).
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606,
 14;
 Length 365;
 Indele
 C2H2-TYPE.
2EB5BE66D7192995 CRC64;
 143 CSWKSSSVAKLVAHQK-----RHRGYRCSYEGCQTVS 174
 4 CSMKSS------HQKPSGCWQH--ISCNFPGCRTLA 31
 4.
 Score 48; DB 1;
Pred. No. 33;
 6; Mismatches
 157; ZINC_FINGER_C2H2_2; 7.
Metal-binding; RNA-binding;
15
 SEQUENCE FROM N.A., AND PARTIAL SEQUENCE
 EMBL, M32473; AAA49714.1; -.
HSSP, P03001; ITP3.
InterPro; IPR007087; Znf C2H2.
Pfam; PF00096; zf C2H2; 9.
PRART; SM00355; ZnF C2H2; 9.
PROSITE; PS00029; ZINC FINGER C2H2 1; 7.
PROSITE; PS50157; ZINC FINGER C2H2 2; 7.
 C2H2-TYPE.
C2H2-TYPE.
C2H2-TYPE.
C2H2-TYPE.
 modified and this statement is not remorentities requires a license agreement ((or send an email to license@isb-sib.ch)
 C2H2-TYPE.
C2H2-TYPE.
 C2H2-TYPE.
 on epithelial cell growth.";
J. Biol. Chem. 267:13073-13078(1992)
 REVISIONS, SEQUENCE FROM N.A. MEDLINE=93038704; PubMed=1417868;
 TISSUE=Kidney;
MEDLINE=92317004; PubMed=1618805;
 41694 MW;
 25.5%;
llarity 35.1%;
Conservative
 Bhandari V., Bateman A.;
 100
1100
1160
1187
213
245
 Homo sapiens (Human)
 220
251
365 AA;
 Best Local Similarity
Matches 13; Conserv
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
```

GRANULINS; 7. Glycoprotein; Alternative splicing;

POTENTIAL.

-structure

Cytokine; Repeat; Polymorphism; 3D-SIGNAL

```
MEDLINE=22388257; PubMed=12477932;

MEDLINE=22388257; PubMed=12477932;

MEDLINE=22388257; PubMed=12477932;

MEDLINE=22388257; PubMed=12477932;

MIAUSDET R.D., Colling P.S., Wagner L.H., Derge J.G.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Brownstein M.J., Uddin T.B., Toshiyui S., Carninci P., Prange C.,

Rah S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Nichards S., Worley C.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Villalon D.K., Muzny D.M., Schergren E.J., Lu X., Gibbs R.A.,

A Willing M., Touchman M., Madan A., Rodrigues S., Sanchez A.,

Blakesley R.W., Touchman J.W., Scheutz J., Myers R.M.,

Blakesley R.W., Touchman J.W., Scheutz J., Myers R.M.,

Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

Generation and initial analysis of more than 15,000 full-length

human and mouse Colb. Sequences."
 Bateman A., Belcourt D.R., Bennett H.P., Lazure C., Solomon S., "Granulins, a novel class of peptide from leukocytes."; Biochem. Biochem. Biochem. Biochem. 173:1161-1168(1990).

-!- FUNCTION: GRANULINS HAVE POSSIBLE CYTOKINE-LIKE ACTIVITY. THEY MAY PLAY A ROLE IN INFLAMMATION, WOUND REPAIR, AND TISSUE REMODELING.
-!- FUNCTION: GRANULIN A PROMOTES PROLIFERATION OF THE EPITHELIAL CELL LINE A431 IN CULTURE WHILE GRANULIN B ACTS AS AN ANTAGONIST TO GRANULIN A, INHIBITING THE GRANULIN B ACTS AS AN ANTAGONIST TO -!- ALTERNATIVE PRODUCTS:
Yu W., Gibbs R.A.; Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
 roc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002)
 SEQUENCE OF 206-233; 281-336; 364-396 AND 442-447.
 SEQUENCE FROM N.A. (ISOFORMS 1 AND 2)
 TISSUE=Leukocyte;
MEDLINE=91097544; PubMed=2268320;
```

(POTENTIAL). (POTENTIAL). (POTENTIAL).

(GLCNAC. . . ) (B) (GLCNAC. . . ) (B) (GLCNAC. . . ) (B) (GLCNAC. . . ) (B) (GLCNAC. . . ) (B) (GLCNAC. . . )

CARBOHYD

PEPTIDE

CARBOHYD CARBOHYD

VARSPLIC

GRANULIN 1.
GRANULIN 2.
GRANULIN 2.
GRANULIN 3.
GRANULIN 4.
GRANULIN 6.
GRANULIN 6.
GRANULIN 7.
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...
N-LINKED (GLCNAC...

(POTENTIAL)

(in isoform 2)

FTId=VSP\_001837

454

454

VARIANT VARIANT

(GLCNAC

N-LINKED

Missing

G -> A (IN dbSNP:25647) /FTId=VAR 014870

Search completed: December 12, 2003, 12:26:07 Job time : 3.06102 secs

This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).

EMBL; M75161; AAA58617.1; ALT\_SEQ EMBL; X62320; CAA44196.1; -.

AF055008; AAC09359.1; -.

EMBL;

EMBL; BC000324; AAH00324.1; -. EMBL; BC010577; AAH10577.1; -. PIR; JC1284; GYHU. PDB; 1G26; 01-NOV-00.

VIM; 138945; -. 30; GO:0008083; F:growth factor activity; TAS.

Genew; HGNC:4601; GRN. MIM; 138945; -.

InterPro; IPR000118; Granulin. Pfam; PF00396; granulin; 7. SMART; SM00277; GRAN; 7.

ISOCIA-P28799-2; Sequence=VSP 001817;
Note=No experimental confirmation available;
Note=No experimental confirmation available;
TISSUE SPECIFICITY: IN WYELOGENOUS LEUKEMIC CELL LINES OF
PROMONOCYTIC, PROMYELOCYTIC, AND PROBRYTHROID LINEAGE, IN
FIBROBLASTS, AND VERY STRONGLY IN EPITHELIAL CELL LINES. PRESENT
IN INFLAMMATORY CELLS AND BONE MARROW, HIGHEST LEVELS IN KIDNEY.
PTM: GRANULINS ARE DISULPIDE BRIDGED.

Svent=Alternative splicing; Named isoforms=2;

IsoId=P28799-1; Sequence=Displayed;

```
ä
 Gaps
 5
 Score 48; DB 1; Length 593; Pred. No. 52;
 9; Indels
 4E402BDB16DE2819 CRC64;
 /FTId=VAR 014830.
S -> H (IN REF. 6)
W -> H (IN REF. 6)
 2; Mismatches
 437 SHPRDIGCDQHTSCPVGGTCCPSL 460
 SHOKPSGCWQHISCNFPG--CRTL 30
 63473 MW;
 ch 25.5%;
1 Similarity 45.8%;
11; Conservative ;
 219 21
386 36
593 AA; 6
 CONFLICT
CONFLICT
SEQUENCE
 Query Match
Best Local
 Matches
NAME OF THE PART O
 ò
 셤
```

```
OPERATING SYSTEM:
ស់ល់ល់លំល់ល់លំល់លំលំលំលំលំលំលំលំលំ
 JS-09-252-991A-19788
 ઠે
 , Appli
 December 12, 2003, 12:07:47; Search time 3.14576 Seconds (without alignments) 430.404 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
 Sequence 8, Ag
Sequence 8, Ag
Sequence 17,
 Sequence 3
Sequence 2
Sequence 3
Sequence 4
Sequence 1
Sequence 3
 Description
 Sequence 6
 Sequence 1
Sequence 1
 Sequence
 Sequence 3
 Sequence
 Seguence
 Sequence
 Sequence
 Issued Patents AA:*

(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

(cgn2_6/ptodata/1/iaa/5B_COMB.pep;*

(cgn2_6/ptodata/1/iaa/6A_COMB.pep;*

(cgn2_6/ptodata/1/iaa/ReCOMB.pep;*

(cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep;*

(cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep;*
 GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
 US-09-252-991A-19788
US-08-255-911A-19788
US-09-635-872A-6
US-09-635-872A-6
US-09-525-991A-30166
US-09-252-991A-32591
US-09-252-991A-3264
US-09-252-991A-3264
US-09-136-769A-4
US-09-136-769A-15
US-09-136-769A-15
US-09-136-769A-15
US-09-136-769A-15
US-09-136-769A-15
US-09-136-769A-15
US-09-136-769A-16
US-09-136-7991A-31815
US-09-252-991A-31815
US-09-211-935-10
US-08-317-687-8
US-09-211-936-10
US-08-317-687-8
US-08-317-687-8
US-08-317-687-8
 1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
 Total number of hits satisfying chosen parameters:
 328717 seqs, 42310858 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 US-10-047-264A-4_COPY_67_98
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 Minimum DB seq length: 0
Maximum DB seq length: 200000000
 Query
Match Length DB
 Perfect score:
 Scoring table:
 48.5
 48
 Database:
 Sequence:
 Searched:
 Result
```

```
Sequence 19788, Application US/09252991A

Facetant No. 6551795

GENERAL INFORMATION:
FACETAL INFORMATION:
FILE OF INVENTION:
FILE OF INVENTION:
FILE REFERENCE:
FILE REFERENCE:
FILE REFERENCE:
FILE REFERENCE:
FILE REPERENCE:
 RESULT 2
US-08-727-688-25
US-08-727-688-25
Sequence 25, Application US/08727688
Sequence 25, Application US/08727688
Sequence 25, Application US/08727688
SENERAL INFORMATION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSES: ADDRESSES:
STREET: 100 Abbott Park Road D377/AP6D
CITY: Abbott Park
STATE: IL
COUNTRY: USA
 . ن
 Sequence 21398, A
Sequence 3, Appli
Sequence 3, Appli
Sequence 17840, A
 Gaps
 sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
sednence
 16,
 Score 52; DB 4; Length 516;
Pred. No. 20;
3; Mismatches 7; Indels
 424 TCSPRS----PSPCRWKPSSAAWRSPAPSRPCNCPGCSTYA 460
 3 SCSMKSSHQKPSGC-WQHIS-----CNFPGCRTLA 31
 US-09-252-991A-30903
US-09-252-991A-30903
US-09-252-991A-3452
US-09-252-991A-3455
US-09-722-011-14
US-08-011-14
US-09-011-14
US-09-0588-415-7
US-09-688-415-7
US-09-688-415-7
US-08-429-991A-18009
US-08-431-313-4
US-08-431-313-4
PCT-US91-02321-4
US-09-252-991A-21398
US-09-252-991A-21398
 US-08-466-277-3
US-09-252-991A-17840
 ALIGNMENTS
 TYPE: PRT

CRGANISM: Pseudomonas aeruginosa
US-09-252-991A-19788
 Query Match
27.7%;
Best Local Similarity 36.6%;
Matches 15; Conservative
 COMPUTE: BOADELE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATED
```

```
S-09-252-991A-30166
Sequence 30166, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: ARUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR FILING DATE: 1998-02-18
 ö
 ö
 Gaps
 Gaps
 Sequence 6, Application US/09636077A

Sequence 6, Application US/09636077A

Patent No. 6537785

GENERAL INFORMATION:
APPLICANT: CANINIELD, WILLIAM
ITLE OF INVENTION: WETHODS OF TREATING LYSOSOWAL STORAGE DISEASE
FILE REPERENCE: 195612US0

CURRENT APPLICATION NUMBER: US/09/636,077A

CURRENT PILING DATE: 1999-09-14

PRIOR FILING DATE: 1999-09-14

NUMBER: OF SEQ ID NOS: 52

SOFTWARE: Patentin version 3.0

SEQ ID NO 6

LENGTH: 515
 ö
 ö
 Length 515;
 Length 515;
 7; Indels
 7; Indels
 Query Match . 26.1%; Score 49; DB 4; Best Local Similarity 56.2%; Pred. No. 52; Matches 9; Conservative 0; Mismatches .
 Score 49; DB 4;
Pred. No. 52;
0; Mismatches
 364 PSNCSQHGLCTETGCR 379
 364 PSNCSQHGLCTETGCR 379
 26.1%;
 13 PSGCWQHISCNFPGCR
 13 PSGCWQHISCNFPGCR
 Query Match
Best Local Similarity 56.2
Matches 9, Conservative
 ORGANISM: Homo sapiens
 ; NAME/KEY: SIGNAL; LOCATION: (1)..(24); NAME/KEY: PROPEP; LOCATION: (25)..(49); US-09-635-872A-6
 LUCATION: (1)..(24)
NAME/KEY: PROPEP
LOCATION: (25)..(49)
09-636-077*-
 NAME/KEY: SIGNAL LOCATION: (1)..(
 US-09-636-077A-6
 TYPE: PRT
 FEATURE
 ઠે
 g
 ð
 g
 US-09-252-991A-27618

Sequence 27618, Application US/09252991A

Sequence 27618, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REPERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT PILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR PELING DATE: 1998-02-18

PRIOR PELING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SECOLING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142
 Patent No. 6534300
GENERAL INFORMATION:
PREDICTANT: CANFIELD, WILLIAM
TITLE OF INVENTION: METHODS FOR PRODUCING HIGHLY PHOSPHORYLATED LYSOSOMAL HYDROLASES
FILE REFERENCE: 195613USO
 ä
 7
 Gaps
 ;
;
 DB 2; Length 163;
 DB 4; Length 236;
 Indels
 8; Indels
 3 SCSMKSSHQ-----KPSGCWQHISCNFPGCRT 29
 SASAKSAHRATSAWNRSAGCTARVSC--VSCRT 33
 26.1%; Score 49; DB 4 36.4%; Pred. No. 22; tive 5; Mismatches
 Query Match 26.1%; Score 49; DB Best Local Similarity 40.9%; Pred. No. 15; Matches 9; Conservative 3; Mismatches
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/727,688
 FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: POTEMBEL, PISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5967.U;
TELECOMMUNICATION INFORMATION:
TELEPHONE: (847) 938-2623
 4 CSMKSSHQKPSGCWQHISCNFP 25
 72 CSSSSSCSWPTSCWS--TCSLP 91
 Sequence 6, Application US/09635872A
Patent No. 6534300
 ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27618
 INFORMATION FOR SEQ ID NO: 25: SEQUENCE CHARACTERISTICS: LENGTH: 163 amino acids
 MOLECULE TYPE: No. 5919638e
 Query Match
Best Local Similarity 36.4 Matches 12, Conservative
 TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
 CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
 RESULT 4
US-09-635-872A-6
 US-08-727-688-25
 TYPE: PRT
ORGANISM:
 셤
 ద
 ð
```

ô

```
Gaps
 FEATURE:
NAME/KEY: VARIANT
LOCATION: (8)...(13)
OTHER INFORMATION: Bach Xaa is independently selected from Glu and
OTHER INFORMATION: gamma-carboxyglutamic acid, provided that at least
OTHER INFORMATION: one Xaa is gamma-carboxyglutamic acid.
NAME/KEY: VARIANT
LOCATION: (1)...(27)
OTHER INFORMATION: Xaa = Any Amino Acid
 ö
 5
 25.3%; Score 47.5; DB 4; Length 451; 34.6%; Pred. No. 73;
 25.0%; Score 47; DB 4; Length 27;
 Indels
 1; Mismatches
 4, Mismatches
 NUMBER OF SEQ ID NOS: 26
SOFWHARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4
LENGTH: 27
 FILE REFERENCE: 50065/002001
CURRENT APPLICATION NUMBER: US/09/136,769A
CURRENT FILING DATE: 1998-08-19
 3 SCSMKSSHQKPSGCWQHISCNFPGCR 28
 24_SCSVRLASARPCDC----CGVPRCR 44
 LOCATION: (1)...(27)
OTHER INFORMATION: Xaa = Any Amino Acid
 Sequence 32664, Application US/09252991A Patent No. 6551795 GENERAL INFORMATION:
 232 CHSSSSTNVPSACWRSSPGTSPTC 255
 4 CSMKSSHQKPSGCWQHISCNFPGC 27
 Sequence 4, Application US/09136769A
Patent No. 6307014
GENERAL INFORMATION:
APPLICANT: Furie, Bruce
APPLICANT: Stenflo, Johan
APPLICANT: Rigby, Alan C.
APPLICANT: Ropstoff, Peter
TITLE OF INVENTION: CONOPEPTIDES
 ORGANISM: Pseudomonas aeruginosa
 Best Local Similarity 34.6
Matches 9; Conservative
 Conservative
 TYPE: PRT
ORGANISM: Conus textile
 JS-09-252-991A-32664
 NAME/KEY: VARIANT
 US-09-252-991A-32664
 .
6
 RESULT 10
US-09-136-769A-4
 Query Match
 Query Match
 . Matches
 셤
 ò
 ઠે
 gequence 28842, Application US/09252991A

pacent No. 6551795

GENERAL INFORMATION:

APPLICATION:

TITLE OF INVENTION:

ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

CURRENT PILING DATE: 1999-02-18

PRIOR PELLING DATE: 1999-02-18

PRIOR PILING DATE: 1998-02-18

PRIOR PILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

LENGTH: 297
 Sequence 32591, Application US/09252991A

Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: MAIC J.
TITLE OF INVENTION: ACCID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
TITLE OF INVENTION: ACCID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
TITLE OF INVENTION: ACCID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
TITLE OF INVENTION: ACCID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
TITLE OF INVENTION: ACCID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS;
CURRENT APPLICATION WUMBER: US 60/074,788
PRIOR APPLICATION WUMBER: US 60/074,788
PRIOR PILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142

LENGTH: 162
 ö
 11;
 Length 365;
 Score 48; DB 4; Length 162;
Pred. No. 20;
1; Mismatches 7; Indels
 Score 48; DB 4; Length 297;
Pred. No. 39;
 9; Indels
 4 CS-MKSSHOKPSGCWQHI-----SCNFP-GCRT 29
 DB 4;
 Score 48.5; DB; Pred. No. 42; 5; Mismatches
PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILING DATE: 1998-07-27 NUMBER OF SEQ ID NOS: 33142 SEQ ID NO 30166
 TYPE: PRT CORGANISM: ORGANISM: Pseudomonas aeruginosa US-09-252-991A-30166
 ; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32591
 TYPE: PRT ORGANISM: Pseudomonas aeruginosa
 Query Match
25.8%;
Best Local Similarity 32.4%;
Matches 12; Conservative
 103 AACWPGARCRPPGCR 117
 25.5%;
 Query Match
Best Local Similarity 46.7%;
Matches 7; Conservative
 14 SGCWOHISCNFPGCR 28
 Query Match
Best Local Similarity
 RESULT 7
US-09-252-991A-32591
 US-09-252-991A-28842
 US-09-252-991A-28842
 ð
 ઠે
 셤
```

```
Length 67;
 Sequence 3, Application US/09020216
Patent No. 6162430
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Harmock, Bruce D.
APPLICANT: Herrmann, Rafael
APPLICANT: Moskowitz, Haim
TITLE OF INVENTION: Insect Control With Multiple Toxins
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
 11; Indels
 ADDRESSEE: Majestic, Parsons, Siebert & Hsue STREET: Four Embarcadero Center, Suite 1450 CITY: San Franciso STATE: California COUNTRY: U.S.A. ZIP: 94111-4121 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/020,216
FILING DATE:
CLASSIFICATION:
APPLICATION DATA:
APPLICATION NUMBER: US 08/435.040
FILING DATE: 08-MAY-1995
ATTORNEY/AGENT INFORMATION:
 Query Match 25.0%; Score 47; DB 1; Best Local Similarity 42.9%; Pred. No. 11; Matches 9; Conservative 1; Mismatches 1.
 NAME: Siebert, J. Suzanne
REGISTRATION NUMBER: 28,758
REFERENCE/DOCKET NUMBER: 2500.078USO
TELECOMOUNICATION INFORMATION:
TELEPHONE: (415) 362-5556
TELEFAX: (415) 362-5418
 12 KPSGCWQHISCNFPGCRTLAK 32
 9 OPENCVYHCFPGSPGCDTLCK 29
PILING DATE: 08-MAY-1995
CLASAELFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Siebert, J. Suzanne
REGISTRATION NUMBER: 28,758
REFERENCE/DOCKET NUMBER: 2500
TELECOMMUNICATION INFORMATION:
FELERAX: (415) 362-5418
TELERX: 278638 MGPS.
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
 N-terminal
 TELEX: 278638 MGPS
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
 MOLECULE TYPE: peptide HYPOTHETICAL: NO
 TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
 TOPOLOGY: line
 õ
 ANTI-SENSE: NO FRAGMENT TYPE:
 US-08-435-040-3
 ð
 g
 ö
 ö
 Gaps
 Gaps
 ö
 Sequence 3, Application US/08435040

Patent No. 5756340

GENERAL INFORMATION:
APPLICANT: Harmmock, Bruce D.
APPLICANT: Herrmann, Rafael
APPLICANT: Moskowitz, Haim
ITILE OF INVENTION: Insect Control With Multiple Toxins
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSER: Majestic, Parsons, Siebert & Heue
STREET: Four Embarcadero Center, Suite 1450
CITY: San Franciso
STREET: California
 NAME/KEY: VARIANT
COCATION: (8)...(13)
OTHER INPORMATION: Each Xaa is gamma-carboxyglutamic acid.
NAME/KEY: VARIANT
COCATION: (1)...(27)
OTHER INFORMATION: Xaa = Any Amino Acid
NAME/KEY: VARIANT
 Query Match 25.0%; Score 47; DB 4; Length 27; Best Local Similarity 45.0%; Pred. No. 4; Matches 9; Conservative 1; Mismatches 10; Indels
 10; Indels
 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,040
 Sequence 15, Application US/09136769A; Patent No. 6307014; Patent No. 6307014; Patent No. 6307014; Patent No. 6307014; Patent No. 6307014; Patent No. 6307014; Patent No. 94PLICANT: Furie, Barbara APPLICANT: Stenflo, Johan APPLICANT: Stenflo, Johan C. APPLICANT: Roepstoff, Peter TITLE OF INVENTION: CONOPEPTIDES; PILE REPERSENCE: 500657002001; CURRENT APPLICATION NUMBER: US/09/136,769A; CURRENT PILING DAIE: 1998-08-19; NUMBER OF SEQ ID NOS: 26; SOFTWARE: PastSEG for Windows Version 4.0; SEQ ID NO 15; LENGTH: 27; The Control of the Control of
 Similarity 45.0%; Pred. No. 4; 9; Conservative 1; 'Mismatches
 i LOCATION: (1)...(27)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-136-769A-15
 27
 4 NSCQXHSDCXSHCICTFRGC 23
 8 SSHOKPSGCWOHISCNFPGC 27
 4 NSCOXHSDCXSHCICTFRGC 23
 8 SSHOKPSGCWQHISCNFPGC
 COUNTRY: U.S.A.
ZIP: 94111-4121
COMPUTER READABLE FORM:
 TYPE: PRT
ORGANISM: Conus textile
 RESULT 11
US-09-136-769A-15
 US-08-435-040-3
 FEATURE:
 g
 ద
 ઠે
```

ô

0; Gaps

```
셤
 RESULT 14
US-09-252-991A-31815

Sequence 31815, Application US/09252991A

Sequence 31815, Application US/09252991A

Sequence 31815, Application US/09252991A

Sequence 31815, Application US/09252991A

Setent No. 6551795

GENERAL INFORMATION:

TITLE OF INVENTION:

SECURE OF INVENTION:

SECURE OF INVENTION:

SECURE OF
 Sequence 25235, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TILLE OF INVENTION NUMBER: US/09/252,991A
TITLE OF INVENTION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR PLING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25235
LENGTH: 339
 ö
 7
 Gaps
 Gaps
 ..
 14;
 Query Match 25.0%; Score 47; DB 4; Length 144; Best Local Similarity 37.0%; Pred. No. 25; Matches 10; Conservative 4; Mismatches 9; Indels
 Query Match 25.0%; Score 47; DB 4; Length 339; Best Local Similarity 32.6%; Pred. No. 63; Matches 14; Conservative 2; Mismatches 13; Indels
 Score 47; DB 3; Length 67;
Pred. No. 11;
1; Mismatches 11; Indels
 --- QHISCNFPGCRTLA 31
 3 SCSMKSSHQKPSGCWQHISCNFPGCRT 29
 30 TCRLSRPRRSASG-WR---CTRPGCRT 52
 12 KPSGCWQHISCNFPGCRTLAK 32
 9 QPENCVYHCFPGSPGCDTLCK 29
 ; ORGANISM: Pseudomonas aeruginosa US-09-252-991A-31815
 ; ORGANISM: Pseudomonas aeruginosa US-09-252-991A-25235
 Query Match
Best Local Similarity 42.9%;
Matches 9; Conservative
 ; ANTI-SENSE; NO
; FRAGMENT TYPE: N-terminal
US-09-020-216-3
 US-09-252-991A-25235
HYPOTHETICAL:
 8
 셤
 ઠ
 g
```

```
140 SWSNNSPHRKAITTLIPAACWITGWRSSPMRSSCGSPICCPLA 182
```

Search completed: December 12, 2003, 12:16:33 Job time : 4.14576 secs

```
Dypothetical protein DBCCR1 - human
C;Species: Homo saplens (man)
C;Species: Homo saplens (man)
C;Species: Homo saplens (man)
C;Accession: T09052
R;Habuchi, T.; Luscombe, M.; Elder, P.A.; Knowles, M.A.
Gsommics 48, 277-288, 1998
A;Title: Structure and methylation-based silencing of a gene (DBCCR1) within a candidat A;Reference number: Z16537; MUID:98207242; PMID:9545632
A;Accession: T09052
A;Accession: T09052
A;Status: preliminary, translated from GB/EMBL/DDBJ
A;Residues: 1-761 <HBS>
A;Residues: 1-761 <HBS>
A;Residues: L-761 <HBS>
A;Cross-references: EMBL:AF027734; NID:g3041876; PIDN:AAC39691.1; PID:g3041877
A;Experimental source: tissue type: brain; developmental stage: fetal and infant
 A;Gene: DBCCR1
A;Map postition: 9q32-q33
A;Note: 1B3089A
C;Superfamily: human hypothetical protein DBCCR1
 Query Match
Best Local Similarity 50.03
Matches 10, Conservative
 hypothetical prote
C02E5.9 protein -
probable retroelem
hypothetical prote
probable retroelem
hypothetical prote
probable retroelem
CD59 protein - bab
CD59 protein - gre
hypothetical prote
hypothetical prote
nypothetical prote
 gene EHS-2 protein
hypothetical prote
gamma-F-crystallin
 gamma-crystallin l
gamma-crystallin I
gamma-crystallin 2
 gamma-crystallin 1
gamma-E-crystallin
gamma-E-crystallin
 gamma-crystallin 2
gammma-crystallin
extracellular matr
 December 12, 2003, 12:23:03 ; Search time 2.92881 Seconds (without alignments) 1050.732 Million cell updates/sec
 gamma-F-crystallin
 gamma-crystallin 4
 conserved hypothet
probable transmemb
 hypothetical prote
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
 1 MFSCSMKSSHQKPSGCWQHISCNFPGCRTLAK 32
 Total number of hits satisfying chosen parameters:
 283308 seqs, 96168682 residues
 SUMMARIES
 OM protein - protein search, using sw model
 US-10-047-264A-4_COPY_67_98
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 149618
CYRTG1
CYRTG1
CYMSG2
CYMSG1
CYMSG1
326811
JS05816
D54060
D54060
D544208
T04909
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
T04906
 S44890
B81248
G82020
 Minimum DB seq length: 0
Maximum DB seq length: 200000000
 Ouery
Match Length
 PIR 76:*
1: pir1:*
2: pir2:*
3: pir3:*
 Title:
Perfect score:
 Scoring table:
 Score
 50.5
 48.5
48.5
 Sequence:
 Searched:
 Database
 Run on:
 Result
```

ö

Gaps

; 0

29.3%; Score 55; DB 2; Length 761; 50.0%; Pred. No. 18; tive 5; Mismatches 5; Indels

| 30                            | 4. 4. 4.<br>80 80 80                                       |               |                                                                                    | 000                        | E64024<br>B81742<br>T32940 | 024<br>742<br>340                                                                                                  | hypothetical prote<br>conserved hypothet<br>hypothetical prote                                                                                    |
|-------------------------------|------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 33                            |                                                            |               |                                                                                    |                            | D87733                     | 733                                                                                                                | protein W03D8.9 [i                                                                                                                                |
|                               |                                                            | 25.5          | .5 557                                                                             |                            | 876051                     | 551                                                                                                                |                                                                                                                                                   |
| 3.6                           |                                                            |               |                                                                                    |                            | G95971                     | 371<br>357                                                                                                         | hypothetical expor                                                                                                                                |
| 38                            |                                                            |               |                                                                                    |                            | T03955                     | 155                                                                                                                | probable transposa                                                                                                                                |
| 6 C                           |                                                            |               | .3 491                                                                             |                            | F87793                     | 607                                                                                                                | protein C27A12.6                                                                                                                                  |
| * 4<br>• -4                   |                                                            |               |                                                                                    |                            | 587785                     | 200                                                                                                                | _                                                                                                                                                 |
| 4 4                           |                                                            | 25.3          |                                                                                    |                            | T02916                     | 15                                                                                                                 | hypothetical prote                                                                                                                                |
| 43                            |                                                            |               |                                                                                    |                            | TOZMCA                     | A D                                                                                                                | - 5                                                                                                                                               |
| 44                            |                                                            |               |                                                                                    |                            | T18311                     | 111                                                                                                                | hypothetical prote                                                                                                                                |
| 45                            |                                                            |               | .3 1303                                                                            |                            | E96805                     | 105                                                                                                                |                                                                                                                                                   |
|                               |                                                            |               |                                                                                    |                            | RI,                        | ALIGNMENTS                                                                                                         |                                                                                                                                                   |
| RESULT<br>174320              | н                                                          |               |                                                                                    |                            | _                          |                                                                                                                    |                                                                                                                                                   |
| gene E<br>C;Spec              | gene EHS-2 protein<br>C;Species: Homo sap                  | ein<br>sapi   | gene EHS-2 protein - human (fragment)<br>C;Species: Homo sapiens (man)             | fraç                       | ment)                      | 100 t 200 t                                                                                                        | 2000                                                                                                                                              |
| C, Acce                       | C, Accession: 174320                                       | 74320         | or book                                                                            | ָ <sup></sup> ֭֭֓֞֞֞֞֞֞֞֜֞ | , , ,                      | #בפקיקיים ביינים ביינים הביינים #בפער ביינים המיינים #בפער ביינים המיינים ביינים המיינים ביינים המיינים המיינים    |                                                                                                                                                   |
| J. Vir                        | ol. 66,                                                    | 7, BO         | k;HOIWILZ, M.S.; BOYCE-Jacino<br>J. Virol. 66, 2170-2179, 1992                     | o u                        | -                          | K;HOIWICZ, M.S.; BOYCE-JACINO, M.T.; FATAB, A.J.<br>J. Virol. 66, 2170-2179, 1992                                  |                                                                                                                                                   |
| A,Titl<br>A,Refe              | e: Novel                                                   | humar<br>ber: | n endogen<br>IS6825; 1                                                             | OUB                        | segue                      | A;Title: Novel human endogenous sequences related to human A;Reference number: 156825; MUID:92194452; PMID:1548756 | A;Title: Novel human endogenous sequences related to human immunodeficiency virus type<br>A;Reference number: 156825; MUID:92194452; PMID:1548756 |
| A, Acce                       | A; Accession: 174320                                       | 74320         | A,Accession: I74320<br>A.Status: preliminary: translated                           | 10                         | £ .                        | fada/ Jawa/ GD mort                                                                                                | •                                                                                                                                                 |
| A, Molecule t                 | A, Molecule type: DNA                                      | ype: DNA      | A Crais                                                                            | 3                          | 7                          | in GB/ Bribbly DDB0                                                                                                |                                                                                                                                                   |
| A; Cross-ref                  | dues: 1-:<br>8-referer                                     | 1Ces:         | Ajresidues: 1-54 km55><br>Ajross-references: GB:M86246; NID:g181990;<br>Constitues | 6; 7                       | ID:GI                      | 81990; PID:g553274                                                                                                 |                                                                                                                                                   |
| A, Gene                       | A;Gene: EHS-2                                              |               |                                                                                    |                            |                            |                                                                                                                    |                                                                                                                                                   |
| Query M<br>Best Lo<br>Matches | Query Match<br>Best Local Similarity<br>Matches 12; Conser | lmilar<br>Con | vat                                                                                | 46 A6                      | Scc<br>Pre<br>0,           | Score 59.5; DB 2; Length<br>Pred. No. 0.49;<br>; Mismatches 8; Indele                                              | th 54;<br>els 3; Gaps 1;                                                                                                                          |
| ò                             | 11 9                                                       | KPSGC         | OKPSGCWQHISCNFPGCRTL                                                               | CNPE                       | GCRTL                      | 30                                                                                                                 |                                                                                                                                                   |
| qq                            | 10 01                                                      | APSGC         | QAPSGCWQDSFCCSCRIRGCLLL                                                            | CRIR                       | GCLLL                      | 32                                                                                                                 |                                                                                                                                                   |
| RESULT                        | 7                                                          |               |                                                                                    |                            |                            |                                                                                                                    |                                                                                                                                                   |
| -                             |                                                            |               |                                                                                    |                            |                            |                                                                                                                    |                                                                                                                                                   |

```
A;Residues: 1-174 <BRE>
A;Residues: 1-174 <BRE>
A;Cross-references: GB:KO2584; NID:g192786; PIDN:AAA03228.1; PID:g309198
C;Comment: There are least seven different gamma crystallins identified in mouse le: C;Superfamily: beta-crystallin
C;Keywords: duplication; eye lens
 A,Molecule type: protein
A,Residues: 1-173 <MH>>
R;Chiou, S.H.; Azari, P.; Himmel, M.E.
J. Protein Chem. 7, 67-80, 1988
A;Title: Physicochemical characterization of gamma-crystallins from bovine lens-hydrody
A;Reference number: A60890; MUID:89351571; PMID:3255364
 Ribreitman, M.L.; Lok, S.; Wistow, G.; Piatigorsky, J.; Treton, J.A.; Gold, R.J.M.; Ten
Proc. Natl. Acad. Sci. U.S.A. 81, 7762-7766, 1984
A; Title: gamma-crystallin family of the mous lens: structural and evolutionary relation
A; Reference number: A94021; MUID:85088487; PMID:6096855
 A,Molecule type: protein
A,Residues: 1-25 «CHI»
A,Note: 14-His, 15-Arg, 22-Cys, 23-Pro, and 24-Asp were also found and may indicate
C,Superfamily: beta-crystallin
C,Keywords: duplication; eye lens
 R;White, H.E.; Driessen, H.P.C.; Slingsby, C.; Moss, D.S.; Lindley, P.F. J. Mol. Biol. 207, 217-235, 1989
A;Title: Packing interactions in the eye-lens. Structural analysis, internal A;Reference number: S04265; MUID:89293855; PMID:2738925
 C.Species: Bos primigenius taurus (cattle)
C.Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 17-Mar-1999
C.Accession: S04266; C60890
 gamma-crystallin 2 - mouse
C.Species: Mus musculus (house mouse)
C.Date: 17-Mar-1987 #sequence_revision 17-Mar-1987 #text_change 22-Jun-1999
A; Residues: 1-173 MOO
A; Residues: 1-173 MOO
A; Cross-references: GB:J00716; NID:g203634; PIDN:AAA40987.1; PID:g203635
C; Superfamily: becta-crystallin
C; Keywords: duplication; eye lens
F; 1-39/Domain: crystallin repeat <GKL>
F; 40-82/Domain: crystallin repeat <GKZ>
F; 87-127/Domain: crystallin repeat <GKZ>
F; 128-167/Domain: crystallin repeat <GKZ>
 Length 173;
 2; Length 173
 10; Indels
 10; Indels
 54
 16 YECSSDHSNLQPYFSRCNSIRVDSGCWMLYEQPNFTGCQ 54
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR
 16 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR
 7;
 Score 51; DB 2;
Pred. No. 17;
5; Mismatches
 Score 51; DB
Pred. No. 17;
5; Mismatches
 F;129-168/Domain: crystallin repeat <GK4>
 F:2-40/Domain: crystallin repeat <GK1>F:41-83/Domain: crystallin repeat <GK2>F:88-128/Domain: crystallin repeat <GK3>
 27.1%;
 27.1%;
 Query Match
Best Local Similarity 30.8:
........ 12; Conservative
 Query Match
Best Local Similarity 30.8
Matches 12; Conservative
 A;Accession: S04266
 A;Accession: C60890
 C;Accession: A02931
 A; Accession: A02931
 CYMSG2
 셤
 g
 à
 ò
 Gramma-Y-crystallin - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: 149617
R;Lok, S:; Breitman, M.L.; Chepelinsky, A.B.; Piatigorsky, J.; Gold, R.J.; Tsui, L.C.
Mol. Cell. Biol. 5, 2221-2310, 1985
A;Title: Lons-specific.promoter activity of a mouse gamma-crystallin gene.
A;Accession: 149617; MUID:86284663; PMID:3837188
A;Accession: 149617; MUID:86284663; PMID:3837188
A;Accession: 149617
A;Accession: 149617
A;Accession: 149617
A;Cross-references: GB:M11039; NID:g192784; PIDN:AAA03227.1; PID:g192785
A;Cross-references: GB:M11039; NID:g192784; PIDN:AAA03227.1; PID:g192785
C;Genetics: A;Introns: 3/3
C;Superfamily: beta-crystallin
C;Keywords: duplication
 gamma-F-crystallin - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: 149618
R;Goring, D.R.; Breitman, M.L.; Tsui, L.C.
Byb. Rye Res. 54, 785-795, 1995
A;Title: Temporal regulation of six crystallin transcripts during mouse lens development A;Reference number: 149618
 gamma-crystallin 1 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Accession: A02930
R;Moormann, R.J.M.; den Dunnen, J.T.; Bloemendal, H.; Schoenmakers, J.G.G.
R;Moormann, R.J.M.; den Dunnen, J.T.; Bloemendal, H.; Schoenmakers, J.G.G.
Proc. Natl. Acad. Sci. U.S.A. 79, 6876-6880, 1982
A;Title: Extensive incragenic sequence homology in two distinct rat lens gamma-crystalli
A;Reference number: A93934; MUID:83091061; PMID:6294661
 ñ
 5
 Gaps
 Gaps
 A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-159 <RES>
A;Cross-references: GB:M64543; NID:g192788; PIDN:AAA53525.1; PID:g567200
C;Superfamily: beta-crystallin
C;Keywords: duplication
 12;
 12;
 27.1%; Score 51; DB 2; Length 159; ilarity 30.8%; Pred. No. 16; Conservative 5; Mismatches 10; Indels

 Score 51; DB 2; Length 69;
 Pred. No. 7.6;
 Mismatches 10; Indels

 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFAGCQ 55
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFAGCQ 55
 24
 19 SVQPSHQEPAGTDQHVSKEF 38
 27.1%;
 Query Match
Best Local Similarity 30.87
Conservative
 Local Similarity
ses 12; Conserve
 A; Accession: A02930
 Query Match
 Best Loc
Matches
 ð
 g
 ઠ
 g
```

symmetry a

ä

Gaps

12;

õ

7

Gaps

12;

RESULT

셤 8

```
A.Molecule type: DNA
A.Residues: 1-174 < DBA
A.Residues: 1-174 < DBA
A.Residues: 1-174 < DBA
A.Residues: 1-174 < DBA
A.Residues: 1-174 < DBA
A.Cross-references: GB:M19359; GB:M19357; GB:M19354; NID:g203636; PIDN:AAA40988.1; PID:
A.Cross-references: GB:M19359; GB:M19357; GB:M1; Lubsen, N.H.; Schoenmakers, J.G.G.
B. 201-213, 1989
A.Title: Nuclectide sequence of the rat gamma-crystallin gene region and comparison wit
A.Reference number: 160312; MUID:89378747; PMID:2777080
A.Recession: IB3435
A.Status: preliminary; translated from GB/EMBL/DDBJ
 Gamma-crystallin 4-1 - rat
NyAlternate names: gamma-F-crystallin
C;Species: Rattus norvegicus (Norway rat)
C;Date: 31-Dec-1888 #sequence_revision 31-Dec-1988 #text_change 13-Aug-1999
C;Date: 31-Dec-1888 #sequence_revision 31-Dec-1988 #text_change 13-Aug-1999
C;Date: 31-Dec-188435
R;den Dunnen, J.T.; Moormann, R.J.M.; Lubsen, N.H.; Schoenmakers, J.G.G.
J. Mol. Biol. 189, 37-46, 1986
A;Mitle: Concerted and divergent evolution within the rat gamma-crystallin gene family.
A;Reference number: A92927; MUID:87060933; PMID:3783678
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 21-Nov-1997
C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 21-Nov-1997
R;Graw, J: Coban, L.; Liebstein, A.; Werner, T.
Gene.104, 265-270, 1991
A;Itle: Murine gamma E-crystallin is distinct from murine gamma 2-crystallin.
A;Reference number: J50596; MUID:92009223; PMID:1916296
A;Accession: J50596
A;Accession: J50596
A;Accession: J70596
A;Accession: J74 <GRA>
A;Cross-references: EMBL:X57855
A;Access-references: EMBL:X57855
A;Acces-references: EMBL:X57855
A;Gross-references: A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:

 .
7
 'n
 gamma-crystallin 2-2 - rat
NiAlbernate names: gamma-D-crystallin
CiSpecies: Rattus norvegicus (Norway rat)
CiSpecies: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 13-Aug-1999
CiAccession: D24060; 183433; S60744
Siden Dunnen, J.T.; Moormann, R.J.M.; Lubsen, N.H.; Schoenmakers, J.G.G.
J. Mol. B101. 189, 37-46, 1986
 Gaps
 Gaps
 A; Cross-references: GB:M19357; NID:g203636; PIDN:AAA40988.1; PID:g203637
 12;
 12;
 Score 51; DB 2; Length 174; Pred. No. 17; 5; Mismatches 10; Indels
 27.1%; Score 51; DB 2; Length 174; 30.8%; Pred. No. 17; ive 5; Mismatches 10; Indels
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 55
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 ----SGCWQ-HISCNFPGCR 28
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 55
 27.1%;
30.8%;
 C; Superfamily: beta-crystallin C; Keywords: duplication
 12; Conservative
 2 FSCSMKSSHQKP----
 Best Local Similarity 30.8
Matches 12; Conservative
 Query Match
Best Local Similarity
Matches 12; Conserva
 A;Molecule type: DNA
A;Residues: 1-174 <RES>
 A; Introns: 3/3; 84/3
 Query Match
 RESULT 11
 RESULT 12
 D24060
 à
 ద
 ò
 유
 gamma-crystallin 1 - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: A02932
R;Breitman, M.L.; Lok, S.; Wistow, G.; Piatigorsky, J.; Treton, J.A.; Gold, R.J.M.; Tsui
R;Breitman, M.L.; Lok, S.; Wistow, G.; Piatigorsky, J.; Treton, J.A.; Gold, R.J.M.; Tsui
A;Title: gamma-crystallin family of the mous lens: structural and evolutionary relations
A;Reference number: A94021; MUID:85088487; PMID:6096855
 Cross-references: GB:K02583; NID:g192778; PIDN:AAA37475.1; PID:g309197
:Comment: There are at least seven different gamma crystallins identified in mouse lens
 ;;
 ;
7
 ä
 gamma-E-crystallin - mouse
C;Species: Mus musculus (house mouse)
C;Accession: S26811
R;Werner, T.
submitted to the EMBL Data Library, February 1991
A;Reference number: S26811
A;Reference number: S26811
 Gaps
 Gaps
 Gaps
 A;Cross-references: EMBL:X57855; NID:g51061; PIDN:CAA40990.1; PID:g51062
 12;
 12;
 12;
 ch 27.1%; Score 51; DB 1; Length 174; l Similarity 30.8%; Pred. No. 17; l2; Conservative 5; Mismatches 10; Indels
 27.1%; Score 51; DB 1; Length 174; 30.8%; Pred. No. 17; Ative 5; Mismatches 10; Indels
 Query Match 27.1%; Score 51; DB 2; Length 174; Best Local Similarity 30.8%; Pred. No. 17; Matches 12; Conservative 5; Mismatches 10; Indels
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 55
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 Pred. No. 17;
5; Mismatches
 C'Superfamily: beta-crystallin
C'Keywords: duplication; eye lens
F;2-40/Domain: crystallin repeat <GK1>
F;41-80-main: crystallin repeat <GK2>
F;88-128/Domain: crystallin repeat <GK3>
F;129-168/Domain: crystallin repeat <GK3>
 C; Species: Mus musculus (house mouse)
 Aintrons: 3/3; 84/3
C; Superfamily: beta-crystallin
C; Keywords: duplication
 Query Match
Best Local Similarity 30.88
Matches 12; Conservative
 Query Match
Best Local Similarity
Matches 12; Conserval
 gamma-E-crystallin - mouse
 A, Molecule type: mRNA
A, Residues: 1-174 <BRE>
 A, Status: preliminary
A, Molecule type: DNA
A, Residues: 1-174 <WER>
```

RESULT 9

ઠે 유 RESULT 10

ò 셤

```
hypothetical protein T10114.110 - Arabidopsis thaliana (5) Species: Arabidopsis thaliana (mouse-ear cress) (5) Date: 23.Apr.1999 #sequence_revision 23.Apr.1999 #text_change 17-Nov-2000 (5) Accession: T04909 Rspevan, M.; Murphy, G.; Ridley, P.; Hudson, S.; Bancroft, I.; Mewes, H.W.; Mayer, K.F. Bubmitted to the Protein Sequence Database, April 1998 A;Reference number: Z15389
 Rivan Es, S.; Nieuwenhuijsen, B.W.; Lenouvel, F.; van Deursen, E.M.; Schaap, submitted to the EMBL Data Library, April 1994
A;Description: Universal signals control slime mold stalk information.
A;Reference number: S44208
A;Recence number: S44208
A;Residues: 1-313 < VAM>A;Residues: 1-313 < VAM>A;Cross-references: EMBL:X78948; NID:g474918; PIDN:CAAS5545.1; PID:g474919
 extracellular matrix protein B - Dictyostelium minutum (fragment)
C;Species: Dictyostellum minutum
C;Date: 07-0ct-1994 #sequence_revision 26-Jul-1996 #text_change 05-Nov-1999
C;Accession: S44208
 Superfamily: Arabidopsis thaliana hypothetical protein F17J16.30
 Query Match
26.9%; Score 50.5; DB 2; Length 313;
Best Local Similarity 48.1%; Pred. No. 32;
Matches 13; Conservative 1; Mismatches 10; Indels
 Query Match
26.6%; Score 50; DB 2; Length 467;
Best Local Similarity 52.9%; Pred. No. 53;
Matches 9; Conservative 2; Mismatches 2; Indels
 A,Cross-references: EMBL:AL021712
A,Experimental source: cultivar Columbia; BAC clone T10114
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 55
 Search completed: December 12, 2003, 12:28:01 Job time : 3.92881 secs
 191 ŚCSNKTGCŚH-TPVSCDDHNŚCTFDTC 216
 3 SCSMKS--SHOKPSGCWQHISCNFPGC 27
 A;Map position: 4
A;Introns: 39/3; 75/1; 334/3; 383/3
A;Noerfamily: 10
 237 GCWQHIEF----CRTVS 249
 15 GCWQHISCNFPGCRTLA 31
 A;Introns: 24/1
C;Keywords: extracellular matrix
 A; Residues: 1-467 <BEV>
 A; Molecule type: DNA
 셤
 g
 셤
 ठ
 ò
A; Fitle: Concerted and divergent evolution within the rat gamma-crystallin gene family. A; Reference number: A92927; MUD:87060933; PMID:3783678
A; Accession: D24000
A; Aptecession: D24000
A; Residues: 1-174 < D30
A; Residues: 1-174 < D30
A; Cross-references: GB:M19359; NID:G203626; PIDN:AAA40984.1; PID:G203630; GB:M19354; GB: R; Den Dunnen, J.T.; van Neck, J.W.; Cremers, F.P.M.; Lubsen, N.H.; Schoenmakers, J.G.G. Gene 78, 201-213, 1989
A; Fitle: Nucleotide sequence of the rat gamma-crystallin gene region and comparison with A; Ascederence number: 160312; MUD:89378747; PMID:2777080
 C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 13-Aug-1999
C;Accession: 156381; 183434
R;Moormann, R.J.; den Dunnen, J.T.; Mulleners, L.; Andreoli, P.; Bloemendal, H.; Schoenm J. Mol. Biol. 171, 233-368, 1983
A;Title: Strict co-linearity of genetic and protein folding domains in an intragenically A;Reference number: 156381; MUD:84114867; PMID:6319707
 A;Accession: I56381
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Molecule type: DNA
A;Rosiques: 1-174 <RES>
A;Cross-references: EMBL:X00271; NID:956193; PIDN:CAA25073.1; PID:9295917
B;Den Dunnen, J:T.; van Neck, J:W.; Cremers, P.P.M.; Lubsen, N.H.; Schoenmakers, J.G.G. Gene 78, 201-213, 1989
A;Title: Nucleotide sequence of the rat gamma-crystallin gene region and comparison with A;Reference number: I60312; MUID:89378747; PMID:2777080
 ñ
 ;
;
 A,Accession: 183433
A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Rolecule type: DNA
A,Residues: 1-174 <RES>
A,Residues: 1-174 <RES>
A,Cross-references: GB:M19359, NID:g203626; PIDN:AAA40984.1; PID:g203630
B,Coki, K.; Amuro, N.; Shimizu, Y.; Okazaki, T.
Blochinita 76, 398-403, 1994
A,Reference number: S60744; MUID:95151850; PMID:7849105
A,Accession: S60744
 A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-174 <000x>
A;Cross-references: EMBL:X57169; NID:g929827; PIDN:CAA40458.1; PID:g929828
 Gaps
 Gaps
 A,Accession: 183434
A,Status: preliminary;
A,Molecule type: DNA
A,Residues: 1-174 cRE2>
A,Cross-references: GB:M19359; NID:g203626; PIDN:AAA40985.1; PID:g203631
 12;
 12;
 Query Match 27.1%; Score 51; DB 2; Length 174; Best Local Similarity 30.8%; Pred. No. 17; Matches 12; Conservative 5; Mismatches 10; Indels
 Score 51; DB 2; Length 174;
Pred. No. 17;
 27.1%; Score ...,
30.8%; Pred. No. 17;
31.0%; Pred. No. 17;
11ve 5; Mismatches 10; Indels
 17 YECSTDHSNLQPYFSRCNSVRVDSGCWMLYEQPNFTGCQ 55
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 2 FSCSMKSSHQKP-----SGCWQ-HISCNFPGCR 28
 gammma-crystallin - rat
N;Alternate names: gamma-E-crystallin
C;Species: Rattus norvegicus (Norway rat)
 C,Genetics: A,Introns: 3/3; 84/3
C,Superfamily: beta-crystallin
C,Keywords: duplication
 Query Match
Best Local Similarity 30.8%
 A;Introns: 3/3; 84/3
C;Superfamily: beta-crystallin
C;Keywords: duplication
 셤
 ઠ
```

5

Gaps

<u>ښ</u>

ď

ä

Gaps

## This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

## IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.